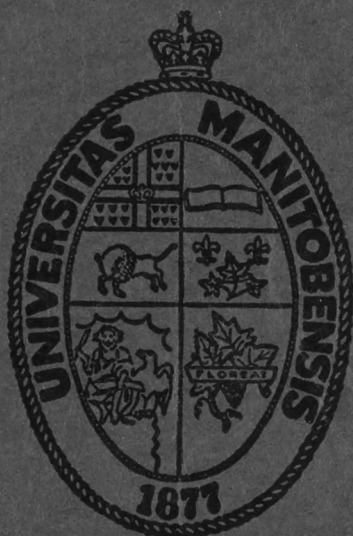


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UNIVERSITY *of* MANITOBA

WINNIPEG



Arts and Science Calendar
Including Pharmacy
Session 1931-32

CALENDAR

University of Manitoba

WINNIPEG

*Incorporated by Act of the Manitoba
Legislature, 1877*

*Definitely Reorganized as a Provincial
University, 1917*

ARTS AND SCIENCE
INCLUDING PHARMACY
1931-1932

WINNIPEG

Printed for the University by Sauls & Pollard Limited
1931

1931

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In the numbering of Courses of Instruction throughout this Calendar, except where it is otherwise explicitly stated in a footnote, the assignment of an odd number indicates that the course is given during the first term of the annual session, that of an even number that it is given during the second term, the assignment of a double number, odd and even, that it is given throughout both terms of the session.

ALMANAC, 1931-1932

1931

April 15-May 4—Registration on these dates by students in Arts and Science who have been in attendance during 1930-1931 or previously. (See page 115).

May 18—Manitoba Summer School classes begin in Pre-Medical Sciences.

June 1—Application for Manitoba Summer School courses other than those in Pre-Medical Sciences to be made by this date. (See Summer School Bulletin).

1-27—Within these dates students may register at the Dean's Office, Arts Building, Kennedy Street, for courses to be taken at the 1931 general session of the Manitoba Summer School.

July 4—Registration at the University of Manitoba, Fort Garry, for Summer School Courses.

6—Classes begin at Manitoba Summer School.

27—Last date for receipt of applications for September Supplemental and special examinations in Medicine, except for students of the Summer Course.

Aug. 1—Last day for receipt of applications for September Supplemental Examinations in Arts, Science, Engineering, Architecture, and Pharmacy.

17—Summer Course in Medicine begins.

21—Applications for admission from students presenting credits other than from this University should be filed with the Registrar by this date.

Sept. 1—Applications for admission from new students in Arts and Science entering from High Schools with their credentials should be filed with the Registrar by this date.

Supplemental Examinations in Arts and Science, Engineering and Architecture, and Pharmacy begin.

Survey School in Engineering begins.

9—Last day for filing notice of intention to write on Supplemental Examinations in Law with Recorder of Law School.

Registration in Law commences at University and Law School.

Last day for filing applications for Supplemental Examinations in Medicine from students attending Summer Course.

12—Registration in Law without penalty closes.

14—Lectures commence in Manitoba Law School.

15—Supplemental and Special Examinations in Medicine begin.

17—Registration in Pharmacy, First and Second Years Diploma Course.

University Council meets.

- Sup.*
- 18—Registration of First Year students in the Junior Division in Arts and Science begins.
Lectures in Pharmacy begin.
 - 19—No registration in Law permitted after this date except in special cases.
Last day for payment, without penalty of \$2.00, of fees of First Year students in the Junior Division in Arts and Science.
 - 21—Lectures begin for students of the First Year of the Junior Division in Arts and Science.
 - 23—Enrolment and payment of fees by students of the Second Year of the Junior Division in Arts and Science. Provision for the complete registration of any not previously registered. A penalty of \$2.00 will be exacted *after* this date.
 - 24—Registration in Medicine begins.
Lectures begin for students of the Second Year of the Junior Division in Arts and Science.
Enrolment and payment of fees by students of the Senior Division in Arts and Science. Provision for the complete registration of any not previously registered.
 - 26—Final date for enrolment of students of the Senior Division in Arts and Science and payment of their fees without penalty of \$2.00.
Registration in Medicine closes at 12 o'clock.
Last day for payment of fees in Medicine.
 - 28—Lectures begin for students of the Senior Division in Arts and Science.
Lectures begin in Medicine.
 - 29—Registration in Engineering and Architecture begins.
- Oct.
- 1—Lectures in Engineering and Architecture begin.
Registration in Arts and Science closes at 5 p.m.
Last day for payment of fees in this Faculty.
 - 2—Registration in Agriculture and Home Economics (Degree Courses) begins.
Supplemental examinations in Agriculture and Home Economics (Degree Courses), all years, begin.
 - 3—Imposition of penalty for late registration in Engineering and Architecture begins.
 - 5—Lectures begin in Agriculture and Home Economics (Degree Courses).
Registration in Engineering and Architecture closes at 5 p.m.
Last day for payment of fees in Engineering and Architecture.
Supplemental and Special Examinations in Law begin.
 - 7—Regular meeting of the Faculty of Arts and Science.
 - 9—Inter-Faculty Track Meet, Sargent Park.
 - 13—Registration of Diploma Students in Home Economics.
 - 14—General Faculty Council meets at 8 p.m.
 - 17—Inter-Collegiate Track Meet, Sargent Park.

- Nov. 2—Registration of Diploma Students in Agriculture.
 9—Thanksgiving Day.
 10—Payment of First Moiety of Isbister Scholarships.
 11—Armistice Day.
 Regular meeting of the Faculty of Arts and Science.
 19—University Council meets.
 23—Last day for receiving applications for December Supplemental and Special Examinations in Arts and Science, Pharmacy, and Engineering and Architecture.
- Dec. 11—Lectures close in Arts and Science and Pharmacy for students who write December examinations.
 12—Lectures close in Engineering and Architecture.
 14—December Examinations in Arts and Science, in Pharmacy and in Engineering and Architecture begin.
 16—Regular meeting of the Faculty of Arts and Science.
 19—Supplemental Examinations for Diploma students in Home Economics and Agriculture.
 23—Lectures close in Medicine and Law and for students in other Faculties not writing December Examinations.

1932

- Jan. 4—University Lectures resumed in all Faculties.
 Last date for payment of Second Term fees.
 18—First Term Examinations in Home Economics and Agriculture (Degree and Diploma students) begin.
 20—Regular meeting of the Faculty of Arts and Science.
 21—University Council meets.
 25—Opening of Second Term in Home Economics and Agriculture.
- Feb. 9—Payment of Second Moiety of Isbister Scholarships.
 17—Regular meeting of the Faculty of Arts and Science.
- Mar. 9—Most Rev. Robert Machray, D.D., LL.D., Archbishop of Rupert's Land, first Chancellor of the University, died 1904.
 16—Regular meeting of the Faculty of Arts and Science.
 17—University Council meets.
 22—Last day for receipt of applications for April and May Supplemental and Special Examinations.
 26—Examinations begin for Diploma Students in Home Economics and Agriculture.

April 1—Commencement Exercises for Diploma students in Home Economics and Agriculture at 8 p.m.

Lectures in Law close.

5—Lister Day. Address at 10 a.m. in Lecture Theatre "A," Medical College.

8—Lectures close in Arts and Science, Pharmacy, and Engineering and Architecture.

11—Annual Examinations in Engineering and Architecture begin.

18—Second Term Examinations in Arts and Science and Pharmacy begin.

Annual Examinations in Law begin.

20—Regular meeting of the Faculty of Arts and Science.

25—Examinations in Home Economics and Agriculture (Degree students) begin.

Written examinations in Medicine (Fifth Year) begin.

May 5—Presentation of Bronze Medals and Certificates of Merit in Medicine in Lecture Theatre "A," at 10 a.m.

16—Examinations in Medicine, First, Second, Third, and Fourth Years, begin.

University Council meets.

18-19—Annual Convocation for the conferring of degrees in Arts and Science, Medicine, Engineering, Architecture, Pharmacy, Law, Agriculture and Home Economics.

June 16—University Council meets.

The oral, practical and clinical examinations in Arts and Science, Pharmacy, Medicine, Engineering and Architecture, and Agriculture and Home Economics will be held by arrangement of the Departments concerned in April or May prior to the opening of the written examinations or during their progress.

THE UNIVERSITY OF MANITOBA

HISTORICAL SKETCH

The University of Manitoba was established by Act of the Manitoba Legislature in 1877 "for the purpose (as the preamble states) of raising the standard of higher education in the Province and of enabling all denominations and classes to obtain academic degrees." The government of the University was vested in a Chancellor, a Vice-Chancellor and a University Council, with powers as a "body politic and corporate" to receive, hold and sell property, to arrange courses of study, to hold examinations and to grant degrees. The Act provided for the affiliation of Colleges and for the granting of degrees in Divinity by those Colleges to students who should have obtained recognized academic standing in Arts subjects. The Chancellor was to be appointed by the Lieutenant-Governor-in-Council, and the University Council was to consist of seven representatives from each of the affiliated Colleges, three from Convocation and two from the Board of Education of the Province.

The three Colleges already in existence in Manitoba were affiliated with the University at its inception. St. John's the Anglican institution, had been reorganized in 1866 by Bishop (afterwards Archbishop) Machray, who became in 1877 the first Chancellor of the University. St. Boniface had grown from a mission school early in the century to be the chief Roman Catholic College of the West. Manitoba College, in connection with the Presbyterian Church, had been organized in 1871. The Vice-Chancellor of the new University was the Hon. Joseph Royal; the Bursar was Mr. Duncan Macarthur; and the Registrar Mr. E. W. Jarvis.

Since 1877 four Colleges have been received into affiliation with the University. The Manitoba Medical College was affiliated in 1882, Wesley College was affiliated in 1888, the Manitoba College of Pharmacy in 1902, and the Manitoba Agricultural College in 1907.

In 1885 an agreement between the Dominion Government and the Province of Manitoba provided for an endowment not exceeding 150,000 acres of land for the University of Manitoba "for its maintenance as a University capable of giving proper training in the higher branches of education."

In 1900 an amendment to the University Act gave the University "power to give instruction and teaching in the several faculties and different branches of knowledge as may from time to time be directed by the Council of the University." The present site was granted by the Dominion Government, and the corner-stone was laid in 1900 by the King, then Duke of Cornwall and York. Four new chairs in the Natural and Physical Sciences were founded in 1904, and as well one in Mathematics and one in the combined subjects of Histology, Pathology and Bacteriology. The number of Science chairs was subsequently increased to six, Geology and Mineralogy, which at the first was combined in part with Botany and in part with Physics, being given independent status, and as well Zoology, which at first was attached to Physiology. A department of Civil Engineering was organized in 1907, and departments of Electrical Engineering, Political Economy, English and History in 1909. Departments of Architecture, of French and of German were created in 1913, and began their work in the fall of that year. In the fall of 1914 the following new departments were instituted: A department of Pharmacy, which took over the teaching in

this subject formerly done by the Manitoba College of Pharmacy; a department of Mechanical Engineering; a department of Classics. In addition, the work of the departments of English, French, German, History and Political Economy, which had hitherto been confined to the subjects of the Third and Fourth Years in Arts, was extended to include those of the First and Second Years and the department of Mathematics, which had hitherto covered only the Second, Third and Fourth Years, assumed responsibility for the work of the First Year as well. The University thus came into the position of offering for the first time through its own faculty the full work of the course in Arts for the B.A. degree.

The affiliation of Manitoba Agricultural College with the University was terminated by an Act of the Provincial Legislature in 1912 but restored again in 1916.

The first President of the University, Dr. James A. MacLean, assumed office on January 1st, 1913.

By the University Amendment Act, 1917, there was introduced into the corporation a Board of Governors of nine members, appointed by the Lieutenant-Governor-in-Council for a period of three years, three retiring each year, and in this Board is vested "the government, conduct, management and control of the University," including its lands, investments, appointments, limits of instruction, etc. The Council of the University was continued, but with a reduction in the number of its members from seventy-two to twenty-eight and a limitation of the sphere of its activity to that of "general charge of the academic work of the University," within which range it is still subject to the plenary power vested in the Board of Governors. Its representative character is maintained as is shown by the following composition: The Chancellor, the President, four representatives from the faculty of the University, two representatives from Manitoba Agricultural College, one representative from Manitoba Medical College, one representative from the College of Physicians and Surgeons of Manitoba, six members to be appointed by the Lieutenant-Governor-in-Council, four representatives to be elected by convocation and two representatives from each of the affiliated Arts Colleges, St. Boniface, St. John's, Manitoba and Wesley. Definite legislative recognition is given by the practice of the submission annually to the Lieutenant-Governor-in-Council through the Minister of Education of a budget of "anticipated revenues and proposed expenditures" and of the appropriation by the Legislature of money for University expenditures.

During the session 1919-1920, an agreement was reached with the Faculty of Manitoba Medical College whereby that institution passed out of existence upon the assumption by the University of responsibility for the maintenance of medical teaching in an adequate manner. In pursuance of this arrangement a full Medical Faculty was appointed and a faculty organization completed.

Provision was also made for the teaching by the University of philosophy, including metaphysics, ethics and psychology, and a chair of Philosophy and Psychology was established.

The Board of Governors completed a reorganization of the University Faculty which became effective on June 1st, 1921. Three faculties were established, viz., the Faculty of Arts and Science, the Faculty of Engineering and Architecture, and the Faculty of Medicine, with a Dean of each Faculty. A General Faculty Council was also instituted.

On March 1st, 1924, by Act of the Manitoba Legislature, the administration of Manitoba Agricultural College was transferred to the Board of Governors of the University and it was arranged that in future the instructional work of the College should be carried on as a Faculty of Agriculture of the University, provision being made at the same time for the appointment of an Advisory Council for the purpose of relating the work in Agriculture to the needs of the people.

COLLEGES AFFILIATED WITH THE UNIVERSITY

St. Boniface College, St. Boniface, in connection with the Roman Catholic Church. *Rector*—Rev. F. Faure, S.J., St. Boniface College.

St. John's College, Winnipeg, in connection with the Church of England. *Warden*—Rev. G. A. Wells, C.M.G., M.A., St. John's College.

**Manitoba College, Winnipeg*, in connection with the United Church of Canada. *Principal*—Rev. John MacKay, M.A., D.D., Manitoba College.

**Wesley College, Winnipeg*, in connection with the United Church of Canada. *President*—Rev. J. H. Riddell, B.A., D.D., 41 Balmoral Place.

Manitoba Law School, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, K.C., LL.D., Law Courts.

*While Manitoba College and Wesley College still retain their separate charters and separate Boards of Directors, they are at present administered by a joint Executive Committee and have a Joint Arts Faculty, a Joint Theological Faculty and a Matriculation Department and carry on their work under the name of United Colleges.

Visitor

HIS HONOUR JAMES D. MCGREGOR
Lieutenant-Governor of Manitoba

Chairman of Board of Governors

JOHN A. MACHRAY, M.A., LL.D., K.C.

Chancellor

RIGHT REV. S. P. MATHESON, D.D., D.C.L., LL.D.

Vice-Chancellor

RIGHT REV. MSGR. A. A. CHERRIER, LL.D.

President

JAMES A. MACLEAN, PH.D., LL.D.

Honorary Bursar

JOHN A. MACHRAY, M.A., LL.D., K.C.

Registrar

W. J. SPENCE, B.A.

BOARD OF GOVERNORS, 1930-1931

Chairman

JOHN A. MACHRAY, M.A., LL.D., K.C.

Secretary

W. J. SPENCE, B.A.

Appointed for a three-year term expiring in 1931:

HENRY HAVELOCK CHOWN, B.A., M.D., C.M., of Winnipeg.
ALMON JAMES COTTON, of Swan River.
THOMAS JOSEPH MURRAY, of Winnipeg.

Appointed for a three-year term expiring in 1932:

ALLAN S. BOND, of Winnipeg
JOHN ALEXANDER MACHRAY, of Winnipeg.
FAWCETT W. RANSOM, of Mountainside.

Appointed for a three-year term expiring in 1933:

*FRED J. DIXON, of Winnipeg.
ROBERT M. MATHESON, K.C., of Brandon.
RICHARD W. CRAIG, B.A., LL.B., K.C., of Winnipeg.

*Deceased.

COUNCIL OF THE UNIVERSITY, 1930-1931

Chairman:

MOST REV. S. P. MATHESON, D.D., D.C.L., LL.D., Archbishop of
Rupert's Land, Chancellor.

Vice-Chairman:

RIGHT REV. MSGR. A. A. CHERRIER, LL.D., Vice-Chancellor.

President of the University:

JAMES A. MACLEAN, Ph.D., LL.D.

Appointed by the General Faculty Council of the University:

W. TIER, M.A.

E. P. FETHERSTONHAUGH, M.C., B.Sc.

S. W. PROWSE, B.A., M.D., F.R.C.S. (Edin.)

W. C. MCKILLICAN, B.S.A.

R. A. WARDLE, M.Sc.

MRS. L. C. DUNCAN, Ph.B., M.A.

Appointed by the Lieutenant-Governor-in-Council:

ROBERT FLETCHER, B.A., LL.D.

MRS. R. F. McWILLIAMS, M.A.

WILLIAM A. MCINTYRE, B.A., LL.D.

G. J. REEVE, M.A.

ELIZABETH S. COLWELL, B.A.

ROBERT MILNE, B.S.A.

Elected by the Graduates of the University in Arts and Science:

DAVID M. DUNCAN, M.A., LL.D.

EDWARD B. PITBLADO, B.A., LL.B.

Elected by the Graduates of the University in Engineering and Architecture:

C. S. LONDON, M.C.E.

Elected by the Graduates of the University in Medicine:

J. D. ADAMSON, B.A., M.D., M.R.C.P. (Edin.)

Elected by the Graduates of the University in Agriculture and Home Economics:

ERNEST A. BARAGAR, B.S.A.

Elected by the Members of the Law Society of Manitoba:

CHARLES RHODES SMITH, B.A., LL.B.

Appointed by St. Boniface College:

RIGHT REV. MSGR. A. A. CHERRIER, LL.D.

REV. H. BOURQUE, S.J., LL.D.

Appointed by St. John's College:

REV. G. A. WELLS, C.M.G., M.A.

REV. E. A. W. GILL, M.A., D.D.

Appointed by Manitoba College:

REV. J. MACKAY, M.A., D.D.

REV. A. B. BAIRD, M.A., D.D., LL.D.

Appointed by Wesley College:

REV. J. H. RIDDELL, B.A., D.D., LL.D.

J. K. SPARLING, M.A., LL.B.

Appointed by the College of Physicians and Surgeons:

R. J. CAMPBELL, M.D.

STANDING COMMITTEES OF THE UNIVERSITY COUNCIL, 1930-1931.

Board of Studies: President MacLean (Chairman), Dean Tier, Dean Fetherstonhaugh, Dean Prowse, Professor R. A. Wardle, Rev. Warden Wells, Rev. Father Bourque, Rev. Dr. MacKay, Rev. Dr. Riddell, Mrs. L. J. C. Duncan, Dr. Robert Fletcher, Dr. W. A. McIntyre, Dr. D. M. Duncan, W. J. Spence, W. B. H. Teakles (Secretary).

Library Committee: (To be appointed by the General Faculty Council).

Committee on Extension Work: The Chancellor (Chairman), President MacLean, Dr. Robert Fletcher, Mrs. R. F. McWilliams, Dean McKillican, Rev. Dr. Baird, Ernest A. Baragar, G. J. Reeve, W. J. Spence, Professor W. T. Allison, J. A. M. Edwards (Secretary).

Committee on Honorary Degrees: The Chancellor (Chairman), President MacLean, Rev. Dr. MacKay, Rev. Dr. Riddell, Rev. Father Bourque, Dr. Robert Fletcher, Dr. D. M. Duncan, W. J. Spence (Secretary).

Committee on Alumni Relations: E. B. Pitblado, Miss E. S. Colwell, E. A. Baragar, Mrs. R. F. McWilliams, C. S. Landon, C. R. Smith, Dr. J. D. Adamson, J. K. Sparling.

Committee on Khaki University Scholarships: Dean E. P. Fetherstonhaugh (Chairman), President MacLean, Dr. D. M. Duncan, Rev. Warden Wells, Assistant Professor R. F. Argue, W. J. Spence, Dr. H. P. Armes (Secretary).

Committee on University Travelling Fellowships: The Chancellor (Chairman), President MacLean, Dean Tier, Professor F. W. Clark, Professor R. A. Wardle, Rev. Canon Gill, Dean Fetherstonhaugh, W. J. Spence (Secretary).

Committee on Winnipeg Electric Company's Appointments for Graduates: The Chancellor (Chairman), President MacLean, Dean Tier, Dean Fetherstonhaugh, Professor A. B. Clark, W. J. Spence (Secretary).

Representatives on Manitoba Examination Board: President MacLean, W. J. Spence, W. B. H. Teakles.

Representatives on the Board of Manitoba Law School: President MacLean, W. J. Spence.

Representative on the General Council of the University of Manitoba Students' Union: W. J. Spence.

Representative on the Athletic Directorate of the University of Manitoba Students' Union: Professor O. T. Anderson.

Representative on the Social Committee of the University of Manitoba Students' Union: Mrs. U. N. Macdonnell.

Representative on the Executive of the Debating Union of the University of Manitoba Students' Union: Professor H. Noel Fieldhouse.

Representative on the Executive of the Dramatic Society of the University of Manitoba Students' Union: Professor A. L. Phelps.

Representative on the Executive of the Glee Club of the University of Manitoba Students' Union: Professor A. J. Perry.

Representatives on the Board of the Winnipeg General Hospital: President MacLean, Dean Fetherstonhaugh, Professor A. A. Stoughton.

Advisory Committee on Nursing Education and Nursing Examinations:
President MacLean, Dr. F. W. Jackson, Mrs. J. F. Morrison, Mrs. R. F. McWilliams, Dr. Robert Fletcher, Mrs. Stella Gordon-Kerr, W. J. Spence.

SPECIAL

Committee on Standards of Admission and Undergraduate Work: The Chancellor (Chairman), President MacLean, Mrs. R. F. McWilliams, Dr. Robert Fletcher, Dr. D. M. Duncan, Dr. Henri Bourque, Rev. Warden Wells, Rev. Dr. John MacKay, Rev. Dr. J. H. Riddell, Mr. C. S. Landon, Mr. C. Rhodes Smith, Dean Tier, Professor M. A. Parker, W. J. Spence (Secretary).

GENERAL FACULTY COUNCIL, 1930-1931

Chairman

PRESIDENT JAMES A. MACLEAN

Secretary

W. J. SPENCE, REGISTRAR

Dean of Women Students

MRS. U. D. MACNONNELL

Faculty of Arts and Science

DEAN WILLIAM TIER	PROFESSOR N. R. WILSON
PROFESSOR FRANK ALLEN	PROFESSOR H. W. WRIGHT
PROFESSOR A. H. R. BULLER	PROFESSOR R. C. LODGE
PROFESSOR M. A. PARKER	PROFESSOR L. A. H. WARREN
PROFESSOR A. B. CLARK	PROFESSOR R. A. WARDLE
PROFESSOR W. F. OSBORNE	PROFESSOR J. S. DELURY
PROFESSOR J. H. HEINZELMANN	PROFESSOR A. J. PERRY
PROFESSOR H. E. BLETCHER	PROFESSOR W. T. ALLISON
PROFESSOR F. W. CLARK	PROFESSOR H. N. FIELDHOUSE

Faculty of Engineering and Architecture

DEAN E. P. FETHERSTONHAUGH	PROFESSOR N. M. HALL
PROFESSOR J. N. FINLAYSON	PROFESSOR M. S. OSBORNE

Faculty of Medicine

DEAN S. W. PROWSE	PROFESSOR V. H. K. MOORHOUSE
PROFESSOR WILLIAM BOYD	PROFESSOR C. R. GILMOUR
PROFESSOR B. J. BRANDSON	PROFESSOR F. T. CADHAM
PROFESSOR A. T. CAMERON	PROFESSOR A. J. DOUGLAS
PROFESSOR D. S. MACKAY	PROFESSOR T. HERBERT BELL

Faculty of Agriculture and Home Economics

DEAN W. C. MCKILLICAN	PROFESSOR M. C. HERNER
MRS. L. J. C. DUNCAN	PROFESSOR R. W. BROWN
PROFESSOR V. W. JACKSON	PROFESSOR F. W. BRODERICK
PROFESSOR G. W. WOOD	PROFESSOR G. L. SHANKS
PROFESSOR R. W. MURCHIE	PROFESSOR G. R. BISBY
PROFESSOR G. P. MCROSTIE	PROFESSOR A. SAVAGE
PROFESSOR A. V. MITCHENER	PROFESSOR W. F. GEDDES

UNIVERSITY FACULTY OF ARTS AND SCIENCE, 1930-1931

- WILLIAM TIER, M.A. (Toronto)
Dean and Chairman of Faculty.....72 Arlington Street.
- FRANK ALLEN, M.A. (U.N.B. and Cornell), Ph.D. (Cornell), LL.D., F.R.S.C.
Professor of Physics.....117 Harvard Avenue
- A. H. REGINALD BULLER, B.Sc. (Lond.), Ph.D. (Leipzig), D.Sc. (Birm.),
 LL.D., F.R.S.C., F.R.S.
Professor of Botany.....McLaren Hotel
- MATTHEW A. PARKER, B.Sc. (Glas.), LL.D., F.I.C., F.C.I.C., F.R.S.C.
Professor of Chemistry.....365 Waverley Street
- ARCH. BROWN CLARK, M.A. (Edin.), F.S.S.
Professor of Political Economy.....Suite 3B, Hampson Court
- WILLIAM F. OSBORNE, M.A. (Toronto), Officier d'Academie.
Professor of French Language and Literature.....753 McMillan Avenue
- JACOB HAROLD HEINZELMANN, B.A. (Illinois), Ph.D. (Chicago)
Professor of German Language and Literature.....880 Grosvenor Ave.
- HENRY E. BLETCHER, B.Sc. (Phar.), F.C.I.C.
Professor of Pharmacy and Pharmaceutical Chemistry.....152 Lenore Street
- FREDERICK WILLIAM CLARK, B.A. (Man.), Ph.D. (Chicago)
Professor of Latin and Greek.....196 Elm Street
- NORMAN RICHARD WILSON, M.A. (Toronto), Ph.D. (Chicago)
Professor of Mathematics.....989 Grosvenor Ave.
- HENRY W. WRIGHT, B.A. (Cornell), Ph.D. (Cornell)
Professor of Philosophy and Social Ethics.....894 Wolseley Ave.
- RUPERT C. LODGE, M.A. (Oxon.)
Professor of Logic and History of Philosophy.....Ste. 15, Fairmont Apts.
- LLOYD A. H. WARREN, M.A. (Queen's), Ph.D. (Chicago), F.R.A.S., A.A.S.,
 A.A.I.A., F.C.A.S.
Professor of Mathematics.....64 Niagara Street
- ROBERT ARNOLD WARDLE, M.Sc. (Manchester)
Professor of Zoology.....Ste. 10, Baldwin Apartments
- JUSTIN S. DELURY, B.A. (Toronto), Ph.D. (Minn.), F.R.S.C.
Professor of Geology and Mineralogy.....Ste. 3, 883 Grosvenor Ave.
- AARON JENKINS PERRY, M.A. (Acadia and Yale)
Professor of English.....61 Home Street
- WILLIAM TALBOT ALLISON, M.A. (Toronto), Ph.D. (Yale)
Professor of English.....600 Gertrude Avenue
- H. NOEL FIELDHOUSE, M.A. (Sheffield), M.A. (Oxon.)
Professor of History.....University of Manitoba
- ROBERT K. MCCLUNG, M.A. (McGill), B.A. (Cantab.), D.Sc. (McGill),
 F.R.S.C.
Associate Professor of Physics.....88 Chestnut Street
- HENRY P. ARMES, B.Sc. (Leeds), Ph.D. (Strassburg), F.C.I.C.
Associate Professor of Chemistry.....Suite C, Milan Apts.

- HERBERT F. ROBERTS, B.A. (Kan.), M.Sc. (Kan.), F.A.A.S.
Assistant Professor of Botany.....University of Manitoba
- REGINALD F. JONES, M.A. (Liverpool)
Assistant Professor of Political Economy.....981 McMillan Ave.
- WILLIAM MEREDITH HUGILL, B.A. (Toronto)
Assistant Professor of Latin and Greek.....University of Manitoba
- URSILLA N. MACDONNELL, M.A., Ph.D. (Queen's)
Dean of Women.....243 Elm St.
- C. F. CURTIS RILEY, M.A. (Doane), B.Sc. (Michigan), M.Sc. (Ill.), M.Z.S.
 (Tokio), F.E.S., F.A.G.S.
Assistant Professor of Zoology.....Ste. 27, Rothesay Apartments
- JOHN FRANCIS TODD YOUNG, M.A., Ph.D. (Toronto)
Assistant Professor of Physics.....900 McMillan Avenue
- W. DORLAND EVANS, M.A. (Toronto)
Assistant Professor of French.....University of Manitoba
- SKULI JOHNSON, M.A. (Man.)
Assistant Professor of Latin and Greek.....176 Lenore Street
- STUART RAEBURN KIRK, B.Sc., Ph.D. (St. Andrews)
Assistant Professor of Geology.....University of Manitoba
- THESSALON HERBERT MILNE, M.A. (Toronto)
Assistant Professor of Mathematics.....University of Manitoba
- JOSEPH E. HOWE, B.A. (Acadia and Yale), M.A. (Acadia)
Assistant Professor of History.....72 Chestnut Street
- DAVID WILLIAM HUNTER MARSHALL, M.A., LL.B. (Glas.), B.A., B.Litt.
 (Oxon.)
Assistant Professor of History.....Suite 5B, Hampson Court
- PATRICK LANGWORTHY CARVER, B.A. (Leeds)
Assistant Professor of English.....University of Manitoba
- R. FLETCHER ARGUE, M.A. (Man.)
Assistant Professor of English.....189 Kingston Row
- PAUL G. HIEBERT, B.A. (Man.), M.A. (Toronto), M.Sc., Ph.D. (McGill),
 F.C.I.C.
Assistant Professor of Chemistry.....330 Oak Street
- DOUGALD MCDUGALL, M.Sc. (Man.), F.C.I.C.
Assistant Professor of Pharmacy and Pharmaceutical Chemistry.....
 279 Inglewood Street
- GEORGE MCLEOD BROWNELL, M.Sc. (Man.), Ph.D. (Minn.)
Assistant Professor of Geology and Mineralogy.....University of Manitoba
- ALAN NEWTON CAMPBELL, M.Sc. (London), Ph.D. (London), D.Sc.
 (Aberdeen), F.I.C.
Assistant Professor of Chemistry.....Suite 1, Minnewaska Apts.
- RONALD OLIVER MACFARLANE, M.A. (Queen's), A.M. (Harvard)
Assistant Professor of History.....Suite 8, Vansittart Apts.
- WILLIAM FAULKNER MAINLAND, M.A. (Edin.)
Assistant Professor of German.....Suite 17, Winnitoba Apts.
- CELINE A. BALLU, M.A. (Wisconsin)
Lecturer in French.....University of Manitoba

CHARLES W. LOWE, M.Sc. (Birmingham)	
<i>Lecturer in Botany</i>	1588 Wolseley Ave.
FERRIS NEAVE, M.Sc. (Manchester)	
<i>Lecturer in Zoology</i>	419 Cumberland Ave.
MARCEL EDMOND JEAN RICHARD, B.A. (Alta.)	
<i>Lecturer in French</i>	313 Ash Street
JOSEPH WILLIAM LAWSON, M.A. (Man.)	
<i>Lecturer in Mathematics</i>	504 Telfer Street
CYRIL MEREDITH-JONES, M.A. (Wales)	
<i>Lecturer in French</i>	University of Manitoba
DORIS BOYCE SAUNDERS, M.A. (Man.)	
<i>Lecturer in English</i>	52 Roslyn Apartments
WILLIAM JOHN WAINES, M.A. (Man.)	
<i>Lecturer in Economics</i>	University of Manitoba
WILLIAM ABRAHAM ANDERSON, M.Sc. (Man.), M.A. (Chicago)	
<i>Lecturer in Physics</i>	366 Ash Street

This Faculty also includes one representative of each department of other Faculties which give instruction in the Faculty of Arts and Science, and the President and the Registrar.

SESSIONAL APPOINTMENTS FOR 1930-1931

ANNA C. JONES (Mrs.), B.A. (Man.).....	<i>Assistant in German</i>
LORNE A. MCINTYRE, B.A. (McMaster), M.A. (Harvard)	
<i>Lecturer in English (ad interim)</i>	
MERYL K. MARSHALL, B.A. (Man.).....	<i>Fellow in Mathematics</i>
WILLIAM G. SPEECHLY, B.A. (Man.).....	<i>Fellow in Classics</i>
MARGARET DUDLEY, B.Sc. (Man.).....	<i>Demonstrator in Botany</i>
HELEN CHESTNUT.....	<i>Student Assistant in Botany</i>
HELEN WALLACE.....	<i>Student Assistant in Botany</i>
MARION HUNT, B.A. (Man.).....	<i>Student Assistant in Botany</i>
ADELE MOYSE.....	<i>Student Assistant in Botany</i>
LOLA SMITH.....	<i>Student Assistant in Botany</i>
MINNIE ALEXANDER.....	<i>Student Assistant in Botany</i>
BARBARA BAIRD.....	<i>Student Assistant in Botany</i>
IDA MAGID.....	<i>Student Assistant in Botany</i>
H. V. KIDD, B.Sc. (Man.).....	<i>Assistant in Chemistry</i>
J. P. TULLY.....	<i>Student Demonstrator in Chemistry</i>
EDWARD JOHNSON.....	<i>Student Assistant in Chemistry</i>
N. S. YANICK.....	<i>Student Assistant in Chemistry</i>
L. SWYERS.....	<i>Student Assistant in Chemistry</i>
EDITH BROWN.....	<i>Student Assistant in Chemistry</i>
STEWART JOHNSON.....	<i>Student Assistant in Chemistry</i>
ERNEST SOLOMON, B.Sc. (Man.).....	<i>Student Assistant in Chemistry</i>
L. J. SHEPS.....	<i>Student Assistant in Chemistry</i>
C. A. AYRE.....	<i>Student Assistant in Chemistry</i>

R. C. MCMURCHY, B.Sc. (Man.)	<i>Student Assistant in Chemistry</i>
JESSIE WYLIE	<i>Student Assistant in Chemistry</i>
MURIEL JAMES, B.A. (Man.)	<i>Student Assistant in Chemistry</i>
H. DYSON CARTER	<i>Student Assistant in Chemistry</i>
R. F. HUNTER	<i>Student Assistant in Chemistry</i>
L. SLOTIN	<i>Student Assistant in Chemistry</i>
ENID SMEDLEY	<i>Student Demonstrator in Geology</i>
A. F. BANFIELD, B.Sc. (McGill)	<i>Student Demonstrator in Geology</i>
G. M. FURNIVAL, B.Sc. (Man.)	<i>Student Demonstrator in Geology</i>
S. P. OGYZLO, B.Sc. (Man.)	<i>Student Demonstrator in Geology</i>
SIGFUS GILLIS, B.A. (Man.)	<i>Student Demonstrator in Physics</i>
EUGENE ELKIN, B.Sc. (Man.)	<i>Student Demonstrator in Physics</i>
M. B. NEWTON, B.Sc. (Man.)	<i>Student Demonstrator in Physics</i>
D. L. DOWNIE, B.Sc. (Man.)	<i>Student Demonstrator in Physics</i>
GERTRUDE BRADLEY	<i>Student Demonstrator in Physics</i>
OLAFUR JOHNSON	<i>Student Assistant in Physics</i>
J. W. LOCKHART	<i>Student Assistant in Physics</i>
CORNELIUS C. NEUFELD	<i>Student Assistant in Physics</i>
C. K. GUNN, B.Sc. (Man.)	<i>Student Demonstrator in Zoology</i>
EDITH LYONS, B.Sc. (Man.)	<i>Student Demonstrator in Zoology</i>
R. BOUGHTON, B.Sc. (Man.)	<i>Student Demonstrator in Zoology</i>
G. M. BARRETT-HAMILTON	<i>Student Assistant in Zoology</i>
J. M. KILGOUR	<i>Student Assistant in Zoology</i>

OFFICERS OF ADMINISTRATION, 1930-1931

<i>President</i>	JAMES A. MACLEAN, Ph.D., LL.D.
<i>Registrar</i>	W. J. SPENCE, B.A.
<i>Assistant Registrar</i>	W. B. H. TEAKLES, B.A.
<i>Honorary Bursar</i>	J. A. MACHRAY, M.A., LL.D., K.C.
<i>Secretary University Land Board</i>	R. H. SHANKS
<i>Chief Accountant and Internal Auditor</i>	A. R. ROSS
<i>Dean of Faculty of Arts and Science</i>	W. TIER, M.A.
<i>Dean of Faculty of Engineering and Architecture</i>	E. P. FETHERSTONHAUGH, M.C., B.Sc.
<i>Dean of the Faculty of Medicine</i>	S. W. PROWSE, B.A., M.D., F.R.C.S. (Edin.)
<i>Secretary of the Faculty of Medicine</i>	A. N. MACLEOD, B.A., M.D., C.M.
<i>Dean of Women</i>	MRS. URSILLA N. MACDONNELL, M.A., Ph.D.
<i>Librarian</i>	F. E. NUTTALL, M.A.
<i>Assistant Librarian</i>	HORATIO WALLACE, M.A.

Dean's Secretary: MAIZIE HICKS, B.A.

Registrar's Assistants: S. HELENA MACVICAR, C. F. BLACK, B.A., DOUGLAS CHEVRIER, B.A., GLADYS TREMAYNE, MARGUERITE S. PETRIE, MAY HETHERINGTON, EVELYN PACE, GERTRUDE ROBSON, B.A., KATHLEEN SPENCE.

Assistant Accountant: NELL V. RAISBECK.

Accountant's Clerk: LILLIAN COOK.

Assistants to Secretary of Faculty of Medicine: ELIZABETH M. PELOW, HELEN MACLEOD, B.A.

Library Assistants: J. ADINA FALCONER, B.A., FLORENCE BISSETT, B.A., ELIZABETH DAFOE, B.A., EDNA GREER, B.A., (Engineering Library), SIDNEY D. MCINTYRE (Medical Library), RUTH MONK (Medical Library).

UNIVERSITY EXAMINERS, 1930-1931

ARTS AND SCIENCE

Classics: Professor F. W. Clark, Assistant Professors Hugill and Johnson, Very Rev. Dean Matheson (St. John's), Rev. Dr. Riddell (Wesley), Associate Professor W. Kirkconnell (Wesley), Rev. Roméo Bergeron (St. Boniface).

Biblical Greek, Hebrew, Biblical Literature and Religious Education: Very Rev. Dean Matheson (St. John's), Rev. Dr. Riddell (Wesley), Rev. Dr. Baird (Manitoba), Rev. Warden Wells (St. John's), Rev. Dr. E. G. Perry (Manitoba), Dr. G. B. King (Wesley), Rev. Dr. MacKay (Manitoba), Professor C. W. Keirstead (Wesley), Rev. H. G. G. Herklots (St. John's), Rev. H. Schelpe (St. Boniface), Rev. J. Milway Filion (Campion).

English: Professors Perry and Allison, Rev. Dr. E. A. W. Gill (St. John's), Assistant Professor Argue, Professor A. L. Phelps (Wesley), Assistant Professor Carver, Associate Professor W. Kirkconnell (Wesley), Miss Doris B. Saunders, Mr. L. A. McIntyre, Rev. Achille Brunet (St. Boniface).

French: Professor Osborne, Mr. A. D. Baker (St. John's), Assistant Professor Evans, Mlle. C. A. Ballu, Miss E. D. Bowes (Wesley), Mr. M. E. Jean Richard, Mr. C. Meredith-Jones, Rev. Achille Brunet (St. Boniface).

German: Professor Heinzelmann, Assistant Professor W. F. Mainland, Mrs. R. F. Jones, Mr. A. D. Baker (St. John's), Miss Gladys Pettingell (Wesley).

Icelandic: Rev. R. Marteinsson, Assistant Professor Johnson.

Philosophy: Professors Lodge and Wright, Rev. J. D. Fleming (Manitoba), Rev. J. O. Murray (St. John's), Rev. Dr. James Elliott (Wesley), Mr. A. R. Cragg (Wesley), Rev. H. Schelpe (St. Boniface), Rev. J. Milway Filion (Campion).

Political Economy: Professor A. B. Clark, Professor J. F. Cross (St. John's), Assistant Professor Jones, Professor L. W. Moffit (Wesley), Mr. W. J. Waines, Rev. H. Schelpe (St. Boniface), Rev. J. Milway Filion (Campion).

Sociology: Rev. Dr. Riddell (Wesley), Assistant Professor Jones.

History: Professor Fieldhouse, Rev. Dr. E. A. W. Gill (St. John's), Assistant Professor J. E. Howe, Assistant Professor D. W. Hunter Marshall, Assistant Professor R. O. MacFarlane, Mrs. Logie Macdonnell, Professor A. R. M. Lower (Wesley), Mr. J. W. Pickersgill (Wesley), Rev. Romeo Bergeron (St. Boniface), Rev. Austin Bradley (Campion) (History of England only).

Mathematics and Astronomy: Professors Wilson, Warren and Tier, Professor J. F. Cross (St. John's), Professor O. T. Anderson (Wesley), Assistant Professor T. H. Milne, Mr. J. W. Lawson, Miss Meryl K. Marshall, Rev. A. Chicoine (St. Boniface).

Physics: Professor Allen, Associate Professor McClung, Professor J. F. Cross (St. John's), Assistant Professor Young, Mr. W. A. Anderson, Mr. R. L. Betts (Wesley), Mr. S. Gillis, Mr. D. L. Downie, Mr. M. V. Newton, Mr. Eugene Elkin, Mr. A. Wilbraham (St. John's).

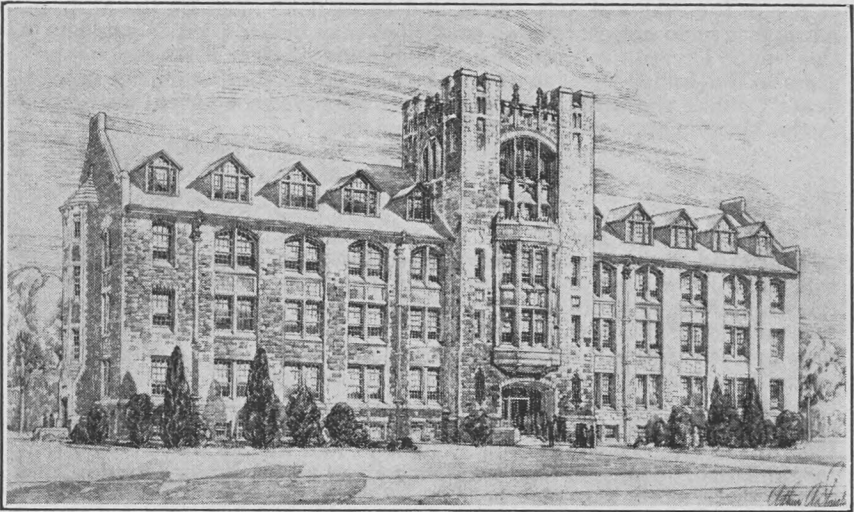
Botany: Professor Buller, Assistant Professor Roberts, Mr. C. W. Lowe, Miss Margaret Dudley.

Geology and Mineralogy: Professor DeLury, Assistant Professors S. R. Kirk and G. M. Brownell.

Chemistry: Professor Parker, Associate Professor Armes, Assistant Professors P. G. Hiebert and A. N. Campbell, Mr. R. L. Betts (Wesley), Mr. H. Vincent Kidd, Rev. A. Chicoine (St. Boniface).

Zoology: Professor Wardle, Assistant Professor Riley, Mr. Ferris Neave, Miss Edith M. Lyons, Mr. C. K. Gunn, Mr. R. V. Boughton, Rev. A. Chicoine (St. Boniface), Mr. Adam Gesinger (Campion).

Pharmacy: Professor H. E. Bletcher, Assistant Professor D. McDougall.



NEW ARTS BUILDING ON THE UNIVERSITY (FORT GARRY) SITE

CURRICULA IN ARTS

The University of Manitoba confers two degrees in Arts, viz., Bachelor of Arts (B.A.) and Master of Arts (M.A.). The requirements from those who would proceed in course to these degrees are set forth below.

I—BACHELOR OF ARTS

Matriculation

The requirements for Matriculation for Arts are set forth in detail in the Matriculation Calendar. No applicant may be received as a regular student of the Junior Division in Arts and Science who carries any condition from Matriculation (the work of Grades IX, X and XI in the High Schools as prescribed for University entrance). Students who have fully completed courses recognized by the Department of Education for purposes other than University entrance, such as the Normal School Entrance course or the Practical Arts course, and whose deficiencies on the Matriculation course do not exceed two conditions may be accepted as students of the Junior Division subject to such limitation of their first session's program in the Junior Division as may be ordered by the Committee on Students' Courses and with the requirement of approved concurrent instruction in the Matriculation work as yet uncompleted.

Undergraduate Course

A student who has fulfilled the requirements for Arts Matriculation may proceed to the Pass or General Bachelor of Arts degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units* of credit in the Junior Division in Arts and Science and thirty-two units of credit in the Senior Pass Division in Arts and Science. He may proceed to the Honors Bachelor of Arts degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units of credit in the Junior Division in Arts and Science and forty-eight units of credit in the Senior Honors Division in Arts. The work for the Pass or General degree is normally done in four annual sessions and that for the Honors degree in five, two being given to the Junior Division, and two or three, as the case may be, to the Senior Division.

Junior Division in Arts and Science

The work of the Junior Division in Arts and Science comprises the following courses from which work must be completed by the student proceeding to the Bachelor of Arts degree, representing, in the aggregate, forty units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements.

*A unit is a body of work to which is assigned for instructional purposes one hour of lecture or other class room exercise per week or one continuous laboratory period of two or three hours per week, throughout an entire session, or the equivalent.

The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Required subjects (totalling twenty units)—

1. English I (4), English II (4).
2. Mathematics I (4).
3. French I (4), French II (4); *or*
German I (4), German II (4); *or*
Latin I (4), Latin II (4); *or*
Classical Greek I (4), Classical Greek II (4); *or*
Biblical Greek I (4), Biblical Greek II (4).

(The language elected under 3 must be a language already taken for Matriculation credit. In the case of Biblical Greek I and II, Classical Greek must have been taken for Matriculation. Subject to the approval of the Board of Studies Biblical Greek I may be substituted for French II or German II or Latin II or Classical Greek II, the prerequisite for Biblical Greek I being either Biblical Greek IA or Classical Greek I.)

Elective Subjects (from which work of the value of twenty units must be completed)—

(The language taken in 3 above is, of course, excluded from election here. Not more than 8 units of work may be chosen from the group: Physics II, Chemistry II, Botany II, Zoology II and Geology II.)

- Biblical Greek IA (4), Biblical Greek IIA (4);
 French I (4), French II (4);
 German I (4), German IA (4), German II (4), German IIA (4); *
 Classical Greek I (4), Classical Greek II (4);
 Hebrew I (4), Hebrew II (4);
 Icelandic I (4), Icelandic II (4).
 Latin I (4), Latin II (4);
 History I (4).
 History II (4).
 Astronomy II (2).
 Botany II (2), Botany IIM (2);
 Chemistry I (4), Chemistry II (4), Chemistry IIM (4); *
 Mechanical Drawing I (2), Architectural Drawing I (2); †
 Geology II (2);
 Mathematics IA *or* IIA (2), Mathematics II (4);
 Physics I (4), Physics IIM (2); Physics II (4); *
 Zoology II (2), Zoology IIM (4);
 Economics II (2);
 Ethics II (2); **
 Logic II (2). **
 Psychology II (2);

The program of work of each student must be approved by the Board of Studies of the University through its Committee on Students' Courses. The normal program for each session is work representing twenty units of credit.

The student should also bear in mind that he will not be accorded the units of credit towards a degree represented by any particular subject until all the requirements with respect to class work, laboratory work and

*Only eight units may be taken in German or Chemistry or Physics. Physics IIM may be elected only in the Pre-Medical Junior Division. See paragraph 5, page 26.

†A student who elects Mechanical Drawing I or Architectural Drawing I must also take Mathematics IA. Only one of these two courses in Drawing may be taken.

**A student may elect one of Ethics II and Logic II but not both.

examinations pertaining to that subject have been fully completed. He is referred to the regulations governing failures, supplemental examinations and summer school work for information as to the way in which deficiencies can be removed.

The following considerations should be kept in view by students in considering their choices of subjects in the Junior Division:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that unless in exceptional cases a subject will not be elected in any year other than the one in which, according to its designation, it is "normally taken."

3. A departure from this rule is found in the practice of recognizing a student's right in one year only of the Senior Pass Division or in the first year of the Senior Honors Division to elect as *one* of his four subjects a four-unit subject of the Junior Division, provided of course that he secures the approval of the Committee on Students' Courses.

4. (a) A student desiring to qualify for entrance upon the course for the degree in Civil Engineering or in Electrical Engineering, may if fully matriculated, do so upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Mechanical Drawing I, Chemistry I, and one of French I, German I, Latin I, Greek I. The language elected must have been taken for Matriculation.

- (b) A student desiring to qualify for entrance upon the course for the degree in Architecture may, if fully matriculated, do so upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Architectural Drawing I, Physics I and French I.

5. A student desiring to qualify for entrance upon the course for the degree in Medicine, may, if fully matriculated (with a course involving Latin and Physics) do so upon completing forty units in the Junior Division in Arts and Science upon the following course^{*†}: English I, English II; Mathematics I; German IA, German IIA; Botany IIM; Chemistry I, Chemistry IIM; Physics I and Physics IIM; Zoology IIM.

6. A student desiring to qualify for entrance upon the course for the degree in Law may, if fully matriculated (with a course involving Latin) do so upon completing forty units in the Junior Division, his course to include Latin I and to comply in all respects with the standard requirements for admission to the Senior Division of the curriculum leading to the B.A. or B.Sc. degree.

7. A student who has not taken both Physics and Chemistry for Matriculation must in the Junior Division complete a Science subject or

^{*}In general any standard course, beyond matriculation, given in a recognized University and accepted by it for two years' credit toward a B.A. or a B.Sc. degree, is considered adequate for purposes of admission to the course in Medicine, provided the minimum requirements laid down above in Physics, Chemistry, Botany and Geology are fully met. Students taking Grade XII with the study of Medicine in view, should elect the language, preferably a modern one, offered in their school.

[†]By arrangement with the University of Toronto the completion of this course will also be accepted for admission to the Second Year of its five-year course in Dentistry, leading to the degree of Doctor of Dental Surgery. For further details consult the announcement of the Faculty of Dentistry of the University of Toronto.

Science subjects of the weight of four units. An exception will be made in the case of a student who completes twenty-four units of language work in the Junior Division, in which case the requirement of four units of Science work may be met in the Senior Division.

Senior Pass Division in Arts and Science

A student may be admitted conditionally to the Senior Pass Division in Arts and Science who has completed at least thirty-six units of credit in the Junior Division upon an approved curriculum. In case he is permitted to enter without having completed in full the forty required units of the Junior Division this fact will be taken into account in approving his course for the first academic year of his work in the Senior Division.

The work of the Senior Pass Division in Arts and Science comprises the following courses from which work must be completed representing in the aggregate thirty-two units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed).

Biblical Greek III (4), Biblical Greek IIIA (4), Botany III (4), Chemistry III (4), Economics III (4), English III (4), French III (4), Geology III (4), German III (4), Classical Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Mathematics IIIA, Philosophy III (4), Physics III (4), Religious Education III (4)*, Scripture III (4)*, Sociology III (4), Zoology III (4).

Group II (from which work of the weight of sixteen units must be completed)—

Biblical Greek IV (4), Biblical Greek IVA (4), Botany IV (4), Chemistry IV (4), Economics IV (4), English IV (4), French IV (4), Geology IV (4), German IV (4), Classical Greek IV (4), Hebrew IV (4), History IV (4), Latin IV (4), Mathematics IV (4), Applied Mathematics IV (4), Philosophy IV (4), Physics IV (4), Religious Education IV (4)*, Scripture IV (4)*, Sociology IV (4), Zoology IV (4).

The following considerations should be kept in view by students in considering their choices of subjects in the Senior Pass Division in Arts and Science:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that in the main the subject elected in Group I above will be carried forward in Group II, or, in other words, that a reasonable degree of sequence will be observed.

3. It is permissible, in connection with one or other of Groups I and II to substitute, subject to the approval of the Committee on Students' Courses, for four units of work there set down, four units from the Junior Division, such as, for example, the elementary work in a science or a language not already taken. Eight units of Junior Division work for Senior Division credit may be elected, four in each group, provided they represent two courses in sequence either in German or in Greek.

*Of Religious Education III and Scripture III only *one* may be taken. Similarly of Religious Education IV and Scripture IV only *one* may be taken.

4. A student who desires to qualify for the degree of Bachelor of Science in the General Course, must, at the end of the Senior Division, have completed Science courses of the weight of at least thirty-two units, (of which at least twenty must be for courses normally taken in the Senior Division), with at least ten units in each of two sciences. If he does not meet this requirement with respect to the Science content of his course, but has otherwise regularly completed the work of the Junior Division and the Senior Pass Division he will receive the degree of Bachelor of Arts in the General Course.

Senior Honors Division in Arts

A student may be admitted to the Senior Honors Division in Arts who has fully completed the forty required units of credit in the Junior Division in Arts and Science upon an approved curriculum.

A student who, at the close of two years in the Junior Division, has not qualified to enter the Senior Honors Division, may after one year's work in the Senior Pass Division, transfer to the Senior Honors Division provided he has by that time—

1. Completed forty units of credit in the Junior Division upon an approved curriculum and sixteen units of credit in the Senior Pass Division.

2. Obtained at least 67% on each of two subjects (representing eight units of credit) of Group I of the Senior Pass Division, which subjects he will be permitted to elect in connection with further work in the Senior Honors Division.

The work of the Senior Honors Division in Arts comprises the following courses from which work must be completed representing in the aggregate forty-eight units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to pre-requisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed)—

Biblical Greek III (4), Economics III (4), English III (4), French III (4), German III (4), Classical Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Philosophy III (4), Religious Education III (4)*, Scripture III (4)*, Sociology III (4), †Physics III (4).

A student may not continue in the Senior Honors Division who at the end of one annual session has not completed sixteen units of work from Group I and who has not as well obtained at least 67% on each of two subjects representing eight units of credit, which subjects he proposes to elect in connection with his further work in the Senior Honors Division.

Group II (from which work of the value of thirty-two units must be completed, consisting of a sixteen-unit sequence in each of two subjects

*Of Religious Education III and Scripture III only *one* may be taken.

†Physics III, Physics IV H, and Physics V may be elected only with Mathematics or Applied Mathematics.

in which the student has obtained already at least 67% in connection with his work of Group I.)

Economics IV H (8), Economics V (8);
 English IV H (8), English V (8);
 French IV H (8), French V (8);
 German IV H (8), German V (8);
 Classical Greek IV (8), Classical Greek V (8);
 Hebrew IV H (8), Hebrew V (8);
 History IV H (8), History V (8);
 Latin IV H (8), Latin V (8);
 Mathematics IV H (8), Mathematics V (8);
 Applied Mathematics IV H (4), Applied Mathematics V (4);
 Philosophy IV H (8); Philosophy V (8).
 †Physics IV H (8), Physics V (8).

Upon completion of the above course the student will receive the degree of Bachelor of Arts with Honors.

At the close of the Second Year of the Senior Honors Division a student may be denied the right to go forward with the Honors work of the Third Year, where, in the opinion of both committees of examiners concerned with the rating of his work, his achievement does not warrant it, and the University Council may, on the joint recommendation of the two committees, admit him to the Bachelor of Arts degree in the General Course provided he has not fallen below 50 per cent. on any paper.

†Physics III, Physics IV H and Physics V may be elected only with Mathematics or Applied Mathematics.

MASTER OF ARTS

The following are the requirements for the degree of Master of Arts (M.A.):

1. To be accepted as a candidate for the degree of Master of Arts an applicant must hold the degree of Bachelor of Arts of the University of Manitoba* or possess such qualifications as the Committee on Post-Graduate studies of the General Faculty Council may deem to be the equivalent of this degree. If his degree be the pass Bachelor of Arts degree of the University of Manitoba he must have obtained a standing of at least 67 per cent in either the Third or the Fourth Year of his undergraduate course in the subject or subjects in which he proposes to elect work for the Master of Arts degree.†

2. (a) The candidate for the Master of Arts degree who, on admission, possesses the Honors B.A. degree of the University of Manitoba, or an equivalent degree, must, to earn the Master's degree, complete at least one academic year of graduate work, where he devotes his whole time to study of the prescribed courses. Where he does not devote his whole time to such study, the minimum period shall be two academic years, except in the case of students who attend a summer session in graduate work at some institution, acceptable to the departments concerned, when the minimum time may be reduced to one year on recommendation of those departments. Students required to take two or more years for the degree must receive standing on at least one-third of their work before entering upon their final year.

(b) The candidate for the Master of Arts degree, who, on admission, possesses the pass B.A. degree of the University of Manitoba, or an equivalent degree, must, to earn the Master's degree, satisfy the following requirements:

(1) He shall first obtain sixteen units of credit in Honors courses as prescribed for those proceeding to the Honors B.A. degree.* Of these, eight units shall be for courses listed as Fifth Year Honors courses by the Department in which the candidate shall later elect to take his major subject and submit his thesis, and of the remaining eight, not more than four may be for courses under this Department. These sixteen units of credit, when completed, do not entitle the candidate to the Honors B.A. degree.

(2) He shall then proceed to meet the requirements for the M.A. degree as laid down for the holder of the Honors B.A. degree in 2(a) above.

3. Two subjects, not necessarily in different departments, shall be taken by every candidate for the M.A. degree. One of those shall be designated as the major subject and special attention shall be devoted to it. It shall be a subject in which the student has already completed the work

*The holder of the University of Manitoba B.A. degree of 1926 or earlier, will not be admitted to candidature for the Master of Arts degree without complying with the requirements of additional preliminary work in Honors courses (as laid down in 2 (b) (1) above), except in those cases in which the work done at the time the Bachelor's degree was taken, in the subjects elected for the Master's degree, was fully equivalent to that at present required for the Honors degree.

†An applicant possessing the pass Bachelor of Arts degree, who has not met the standard of at least 67 per cent in either the Third or the Fourth Year of his undergraduate course in the subject or subjects in which he proposes to elect work for the Master of Arts degree, may, on the recommendation of the department or departments concerned, and with the concurrence of the Committee on Post-Graduate Studies, be permitted, on a provisional basis, to take the required sixteen units of Honors B.A. work but may not proceed further with his M.A. course unless he attains a standard of at least 67 per cent on this work.

of the undergraduate Senior Honors Division or in which, if he holds a pass B.A. degree, he has already taken eight additional units of work as required under 2(b) above. The minor subject shall be selected from a group related to the major subject. Not more than one-third of the student's time should be devoted to the minor subject. A total of 800 marks is assigned to the entire work for the M.A. degree, distributed as follows: 200 marks for the minor subject and 600 marks for the major subject and the thesis.

4. Every candidate for the Master of Arts degree must submit a thesis on some topic connected with his major subject that shall be judged satisfactory by the candidate's examining committee.

5. The student shall pursue his work under the direction of two or more instructors of whom at least one shall be a member of the University Faculty. Recommendations with regard to Major and Minor courses and subject of thesis shall be drawn up by the departments immediately concerned after consultation with the candidate and such recommendation shall be submitted for final approval to the standing committee of the General Faculty Council on Post-Graduate Studies not later than December 1st in any year. When these have been approved he will be notified of the fact by the Secretary of the Committee on Post Graduate Studies and must then become registered at once as a candidate for the degree and pay the required fees. Students who desire to undertake the work extra-murally will not be permitted to register unless the library facilities to which they have access are satisfactory to the department or departments concerned.

6. The candidate for the Master of Arts degree shall pass such written examinations on the two subjects of his course at such times and under such conditions as the Committee on Post-Graduate studies shall decide, and shall also undergo a final oral examination conducted by the examining committee. The committee which shall pass upon the merits of the thesis shall consist of the instructors under whose direction the candidate's work has been performed, and at least one other nominated by the Committee on Post-Graduate Studies. The pass mark at written examinations for the M.A. degree is 60%; the thesis, to be satisfactory, must receive a grade of at least 67%.

7. The thesis in its completed form shall be submitted not later than April 15th in any year to ensure the conferring of the degree at the Annual Convocation of that year. At least four printed or typewritten copies are required, one of which shall be deposited in the Library. It is desirable that uniformity in style, format, etc., be observed and in reference to these matters the candidate should consult the secretary of the Committee on Post-Graduate Studies.

8. For the present the course of study in any department for the M.A. degree will in the main be outlined on request by the instructors in that department, and adapted to suit the needs, capabilities and previous training of the applicant. A limited number of M.A. courses are prepared in advance, and those are listed along with the undergraduate courses of the same department elsewhere in this Calendar.

9. By special arrangement the course for the degree of Bachelor of Science in Agriculture, with specialization in Economics (the course involving the Agricultural Business option) is accepted as being equivalent, as a foundation for graduate study in Economics, to a pass B.A. degree. The holder of the B.S.A. degree (Agricultural Business option) having taken a course in which there is a minimum of economic theory as such and a great deal of applied economics, is required, therefore, in his preliminary Honors work and his Master's work, to bring up his arrears in economic theory and to put himself in this respect on an equal footing with the

student who has taken the Honors B.A. work. Such a student takes a Major in Economic Theory, with a minor in either International Trade, Public Finance, Economic History, Political Science, or some other allied subject. His thesis is based upon investigational work in the field of Applied Economics, done under direction upon local materials. Approximately half of the course work is taken in regular classes (B.A. Pass and Honors) and the other half will be assigned reading. The total amount of the course work will be determined in part by the student's previous training and in part by the nature and scope of his special investigation. The minimum time in which the work can be carried out is two summers (given to investigation and reading) and one regular annual session (given primarily to course work and lectures). For further details, consult the Calendar of the Faculty of Agriculture and Home Economics.

Since students are admitted to the course leading to the B.S.A. degree with any complete Grade XI standing (including that of the Entrance-to-Normal Course of the Manitoba Department of Education, which does not necessarily require knowledge of a foreign language), candidates for the M.A. degree, holding the Bachelor's degree in Agriculture, are required to establish a reading knowledge of either French or German before proceeding to their final examination.

MASTER OF ARTS IN EDUCATION

The Council of the University has recently established the degree of Master of Arts in Education, accepting the offer made by the Committee of the Manitoba Summer School to provide instruction in certain courses in the Philosophy and History of Education and in Educational Administration and to supervise educational Research. Provision is also being made for the development of a special library in this field which will be available primarily for students of the Summer School in Education and as well for the members of the profession generally.

The following are the requirements for the degree of Master of Arts in Education:

1. To be accepted as a candidate for the degree of Master of Arts in Education an applicant must have the following qualifications: (a) He must hold the degree of Bachelor of Arts of the University of Manitoba or possess such qualifications as the Committee on Post-Graduate Studies of the General Faculty Council may deem to be equivalent to this degree. (b) He must hold a First Class Professional Teacher's Certificate of the Province of Manitoba or its equivalent as determined by the Department of Education, and must have had a minimum of one year's attendance at an approved normal school*. (c) He must have had at least two years' teaching experience.

2. Application for admission to candidacy for the degree shall be made to the Secretary of the Committee on Post-Graduate Studies of the University of Manitoba and shall be accompanied by a recommendation from its Sub-Committee on Education, covering major and minor courses, and where possible, a thesis subject prepared along the lines set out in 3 below.

3. Candidates for the degree of Master of Arts in Education shall be required to complete eight graduate courses in Education. Courses 1, 2, 3, 4 and 5 (Group I) shall be compulsory for all candidates and shall be designated as the major. Three additional courses, two from Group II and one from Group III shall be selected by the candidate, subject to the approval of the Committee and shall be designated as the minor.

*A deficiency in this respect may be overcome by taking an additional course or courses of graduate work for the degree, as recommended by the Sub-Committee on Education and approved by the Committee on Post-Graduate Studies.

COURSES LEADING TO THE DEGREE OF MASTER OF ARTS IN EDUCATION

Course

Group I

1. School Surveys and Methods of Educational Research.
2. Statistical Methods Applied to Education.
3. General History of Education.
4. Psychology of Elementary Education or Psychology of Secondary Education. (Pre-requisite, Course in Educational Psychology.)
5. Mental and Achievement Tests.

Group II

6. The History of Modern Education with special reference to the British Isles, Canada and the United States.
7. Problems of Educational Administration and Supervision.
8. Problems of Classroom Organization and Management.
9. The Organization and Administration of the Junior High School, the Senior High School and the Junior College.
10. Curriculum Construction.

Group III

11. Special Methods of Instruction in English.
12. Special Methods of Instruction in Foreign Languages.
13. Special Methods of Instruction in History and Civics.
14. Special Methods of Instruction in Mathematics.
15. Special Methods of Instruction in the Biological or in the Physical Sciences.
16. Problems in Reading and in the Use of the School Library.
17. Health and Physical Education.

(N.B.—As a prerequisite to enrolment in the courses in Special Methods in Group III, the Sub-Committee on Education will demand some special academic qualifications in the subject or subjects involved, looking eventually to the prescription of the Honors B.A. or B.Sc. degree or its equivalent.)

4. Candidates must submit a thesis on some topic which has been approved by the instructor in charge of the course from which the subject is chosen and which has been approved by the Sub-Committee on Education. The thesis must be based on an investigation which involves the use of the objective method. It shall be graded for degree credit by the instructor under whose direction it has been prepared and by two other persons appointed by the Committee on Post-Graduate Studies.

5. To complete the course of study for the degree will require at least two years. Work will be conducted both extra-murally and intra-murally under the direction of the Manitoba Summer School. Students may not register in more than four courses during any one year.

6. Candidates for the degree of Master of Arts in Education shall by a final examination, either oral or written, show proficiency in the whole field of their course. This examination shall be held at such times and under such conditions as the Committee on Post-Graduate Studies shall determine. The pass mark for all written examinations and for the thesis shall be the same as for the M.A. in other departments.

LECTURES OFFERED IN EDUCATION AT THE MANITOBA SUMMER SCHOOL

Session of 1931

Lectures on selected subjects in the course of study leading to the degree of Master of Arts in Education will be offered at the Manitoba Agricultural College during the session of the Manitoba Summer School, commencing Monday, July thirteenth and ending Friday, August twenty-first, 1931.

CURRICULA IN SCIENCE

The University of Manitoba confers two degrees in Science, viz., Bachelor of Science (B.Sc.) and Master of Science (M.Sc.).

I—BACHELOR OF SCIENCE

Matriculation

The requirements for Matriculation for Science are set forth in detail in the Matriculation Calendar. No applicant may be received as a regular student of the Junior Division in Arts and Science who carries any condition from Matriculation (the work Grades IX, X and XI in the High Schools as prescribed for University entrance.) Students who have fully completed courses recognized by the Department of Education for purposes other than University entrance, such as the Normal School Entrance course or the Practical Arts course, and whose deficiencies on the Matriculation course do not exceed two conditions, may be accepted as students of the Junior Division subject to such limitation of their first session's program in the Junior Division as may be ordered by the Committee on Student's Courses and with the requirement of approved concurrent instruction in the Matriculation work as yet uncompleted.

Undergraduate Course

A student who has fulfilled the requirements for Arts Matriculation may proceed to the Pass or General Bachelor of Science degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units* of credit in the Junior Division in Arts and Science and thirty-two units of credit in the Senior Pass Division in Arts and Science. He may proceed to the Honors Bachelor of Science Degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty-two units of credit in the Junior Division in Arts and Science and forty-eight units of credit in the Senior Honors Division of Arts and Science. The work for the Pass or General degree is normally done in four annual sessions and that for the Honors degree in five, two being given to the Junior Division and two or three, as the case may be, to the Senior Division.

Junior Division in Arts and Science

The work of the Junior Division in Arts and Science comprises the following courses from which work must be completed by the student proceeding to the Bachelor of Science degree, representing, in the aggregate, forty units of credit for the Pass degree, and forty-two for the Honors degree. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

*A unit is a body of work to which is assigned for instructional purposes one hour of lecture or other class room exercise per week or one continuous laboratory period of two or three hours per week, throughout an entire session, or the equivalent.

FOR STUDENTS PROCEEDING TO THE BACHELOR OF SCIENCE DEGREE IN THE GENERAL COURSE

Required Subjects (totalling twenty units)—

1. English I (4), English II (4).
2. Mathematics I (4).
3. French I (4), French II (4); *or*
German I (4), German II (4); *or*
Latin I (4), Latin II (4); *or*
Classical Greek I (4), Classical Greek II (4); *or*
Biblical Greek I (4); Biblical Greek II (4).

(The language elected under 3 must be a language already taken for Matriculation credit. In the case of Biblical Greek I and II, Classical Greek must have been taken for Matriculation. Subject to the approval of the Board of Studies Biblical Greek I may be substituted for French II or German II or Latin II or Classical Greek II, the prerequisite for Biblical Greek I being either Biblical Greek IA or Classical Greek I.)

Elective Subjects (from which work of the value of twenty units must be completed).

(The language taken in 3 above is of course excluded from election here.)

Biblical Greek IA (4), Biblical Greek IIA (4);
French I (4), French II (4);
German I (4), German IA (4), German II (4), German IIA (4)*;
Classical Greek I (4), Classical Greek II (4);
Hebrew I (4), Hebrew II (4);
Icelandic I (4), Icelandic II (4);
Latin I (4), Latin II (4);
History I (4).
History II (4).
Astronomy II (2).
Botany II (2); Botany IIM (2);
Chemistry I (4), Chemistry II (4), Chemistry IIM (4)*;
Mechanical Drawing I (2), Architectural Drawing I (2); †
Geology II (2);
Mathematics IA or IIA (2), Mathematics II (4);
Physics I (4), Physics IIM (2); Physics II (4); *
Zoology II (2), Zoology IIM (4);
Economics II (2);
Ethics II (2)**;
Logic II (2)**;
Psychology II (2).

FOR STUDENTS PROCEEDING TO THE BACHELOR OF SCIENCE DEGREE IN THE HONORS COURSE

Required Subjects (totalling twenty-six units of credit)—

1. English I (4), English II (4).
2. Mathematics I (4), Mathematics IA or IIA (2).
3. Physics I (4), Chemistry I (4) and either Physics II (4) or Chemistry II (4).

*Only eight units may be taken in German or Chemistry or Physics. Physics IIM may be elected only in the Pre-Medical Junior Division. See paragraph 5, page 36.

†A student who elects Mechanical Drawing I or Architectural Drawing I must also take Mathematics IA. Only one of these two courses in Drawing may be taken.

**A student may elect one of Ethics II and Logic II but not both.

Elective Subjects (totalling sixteen units of credit and chosen on the following plan)—

1. Language courses totalling eight units—
French I (4) and German IA (4)
2. Work of the value of eight units from the following—
Mathematics II (4), Physics II (4) *or* Chemistry II (4) (the one not already taken), Botany II (2), Zoology II (2),
Geology II (2), Astronomy II (2).

The following considerations should be kept in view by students in considering their choices of subjects in the Junior Division:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.
2. The Committee on Students' Courses will expect that, unless in exceptional cases, a subject will not be elected in any year other than the one in which, according to its designation, it is "normally taken."
3. A departure from this rule is found in the practice of recognizing a student's right in one year only of the Senior Pass Division or in the first year of the Senior Honors Division to elect as *one* of his four subjects a four unit subject of the Junior Division, provided of course that he secures the approval of the Committee on Students' Courses.
4. (a) A student desiring to qualify for entrance upon the course for the degree in Civil Engineering or in Electrical Engineering, may, if fully matriculated, do so, upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Drawing I, Chemistry I and one of French I, German I, Latin I, Greek I. The language elected must have been taken for Matriculation.
- (b) A student desiring to qualify for entrance upon the course for the degree in Architecture, may, if fully matriculated, do so upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Architectural Drawing I, Physics I and French I.
5. A student desiring to qualify for entrance upon the course for the degree in Medicine, may, if fully matriculated (with a course involving Latin and Physics) do so upon completing forty units in the Junior Division in Arts and Science upon the following course*: English I, English II; Mathematics I; German IA; German IIA; Botany IIM; Chemistry I; Chemistry IIM; Physics I and Physics IIM; Zoology IIM.
6. A student who desires to qualify for the degree of B.Sc. in the General Course must, at the end of the Senior Division, have completed Science courses of the weight of at least thirty-two units (of which at

*In general any standard course beyond matriculation given in a recognized University and accepted by it for two years' credit towards a B.A. or a B.Sc. degree, is considered adequate for purposes of admission to the course in Medicine, provided the minimum requirements laid down above in Physics, Chemistry, Botany and Zoology are fully met. (Students taking Grade XII with the study of Medicine in view, should elect the language, preferably a modern one, offered in their school.)

least twenty must be for Courses normally taken in the Senior Division) and at least two Science subjects must be continued to the end of the Senior Division. It is required that he elect either Physics I or Chemistry I in the Junior Division and should make additional Science elections in view of the requirement above.

In order that students intending to enter the Senior Honors Division in Science may be informed of the more usual and desirable combinations of subjects for their work of the Second and Third Years of the Senior Division, and further, in order that such students may have some guidance in the selection of their subjects in the Junior Division and the First Year of the Senior Honors Division, so that they may acquire adequate preliminary training for the more specialized work of the last two years, the following suggestions are made:

It is recommended that one of the following combinations be elected in the Second and Third Years of the Senior Honors Division, viz: Botany and Zoology; Chemistry and Physics; Chemistry and Botany; Chemistry and Zoology; Chemistry and Geology; Mathematics and Physics; Geology and Zoology. Any student who for special reasons desires to prepare himself for the election of any combination of subjects not listed here should consult the Departments concerned at the earliest opportunity.

First Year, Junior Division

Students intending to proceed to the Senior Honors Division in Science should elect the following subjects: English I (4); Mathematics I (4); Physics I (4); Chemistry I (4); French I (4) or German I (4) or German IA (4).

Second Year, Junior Division

Students intending to proceed to the Senior Honors Division in Science should elect the following subjects: English II (4); French II (4), or German IA* (4), or German II (4), or German IIA (4); Mathematics IIA (2); Physics II (4), or Chemistry II (4). In addition the course must be rounded out to twenty-two units and the following selections for the various Science combinations of the Second and Third Years of the Senior Honors Division should be made:

BOTANY AND ZOOLOGY	}	Physics II (4); Chemistry II (4);
BOTANY AND CHEMISTRY		Botany II (2); Zoology II (2);
CHEMISTRY AND ZOOLOGY	}	Mathematics II (4); Chemistry II (4);
CHEMISTRY AND PHYSICS		Physics II (4).
MATHEMATICS AND PHYSICS	}	Chemistry II (4); Geology II (2); Physics
CHEMISTRY AND GEOLOGY		II (4); Zoology II (2) or Botany II (2).
GEOLOGY AND ZOOLOGY	—	Geology II (2); Botany II (2); Zoology II (2); Astronomy II (2); Chemistry II (4).

First Year, Senior Division

The following selections of subjects for the various science combinations of the Second and Third Years of the Senior Honors Division should be made:

BOTANY AND ZOOLOGY	—	Botany III (4); Zoology III (4); 8 units from Chemistry III (4); Physics III (4); Geology II (2), an Arts subject (2).
CHEMISTRY AND PHYSICS	—	Chemistry III (4); Physics III (4); Mathematics IIIS (4) or Mathematics III (4); 4 additional units to be selected.

*It is expected that by the end of the Junior Division students intending to take Honors in Science will have earned eight units of credit in modern languages and will have an elementary acquaintance with both French and German.

CHEMISTRY AND BOTANY	}	Chemistry III (4); Botany III (4);
CHEMISTRY AND ZOOLOGY		Zoology III (4); 4 additional units to be selected.
CHEMISTRY AND GEOLOGY	—	Chemistry III (4); Geology III (4); Physics III (4); Botany III (4) or Zoology III (4).
MATHEMATICS AND PHYSICS	—	Mathematics III (4); Physics III (4); and 8 additional units to be selected.
GEOLOGY AND ZOOLOGY	—	Geology III (4); Botany III (4); Zoology III (4); Chemistry III (4).

Senior Pass Division in Arts and Science

A student may be admitted conditionally to the Senior Pass Division in Arts and Science who has completed at least thirty-six units of credit in the Junior Division upon an approved curriculum. In case he is permitted to enter without having completed in full the forty required units of the Junior Division this fact will be taken into account in approving his course for the first academic year of his work in the Senior Division.

The work of the Senior Pass Division in Arts and Science comprises the following courses from which work must be completed representing in the aggregate thirty-two units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed)—

Biblical Greek III (4), Biblical Greek IIIA (4), Botany III (4), Chemistry III (4), Economics III (4), English III (4), French III (4), Geology III (4), German III (4), Classical Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Mathematics IIIA, Philosophy III (4), Physics III (4), Religious Education III (4)*, Scripture III (4)*, Sociology III (4), Zoology III (4).

Group II (from which work of the value of sixteen units must be completed)—

Biblical Greek IV (4), Biblical Greek IVA (4), Botany IV (4), Chemistry IV (4), Economics IV (4), English IV (4), French IV (4), Geology IV (4), German IV (4), Classical Greek IV (4), Hebrew IV (4), History IV (4), Latin IV (4), Mathematics IV (4), Philosophy IV (4), Physics IV (4), Religious Education IV (4)*, Scripture IV (4)*, Sociology IV (4), Zoology IV (4).

The following considerations should be kept in view by students in considering their choices of subjects in the Senior Pass Division in Arts and Science:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

*Of Religious Education III and Scripture III only *one* may be taken. Similarly of Religious Education IV and Scripture IV only *one* may be taken.

2. The Committee on Students' Courses will expect that in the main the subjects elected in Group I above will be carried forward in Group II, or, in other words, that a reasonable degree of sequence will be observed.

3. It is permissible, in connection with one or other of Groups I and II to substitute, subject to the approval of the Committee on Students' Courses, for four units of work there set down, four units from the Junior Division, such as, for example, the elementary work in a science or a language not already taken. Eight units of Junior Division work for Senior Division credit may be elected, four in each group, provided they represent two courses in sequence, either in German or in Greek.

4. A student who desires to qualify for the degree of Bachelor of Science in the General Course must, at the end of the Senior Division, have completed Science courses of the weight of at least thirty-two units, (of which at least twenty must be for courses normally taken in the Senior Division), and at least two Science subjects must be continued to the conclusion of the Second Year of the Senior Division. If he does not meet this requirement with respect to the science content of his course, but has otherwise regularly completed the work of the Junior Division and the Senior Pass Division, he will receive the degree of Bachelor of Arts in the General Course.

Senior Honors Division in Science

A student may be admitted to the Senior Honors Division in Science who has fully completed the forty required units of credit in the Junior Division in Arts and Science upon a curriculum approved for the purpose.

Group I (from which work of the weight of sixteen units must be completed)—

Astronomy III (4)*, Botany III (4), Chemistry III (4), Geology III (4), Mathematics III (4), Physics III (4), Zoology III (4).

A student may not continue in the Senior Honors Division who at the end of one annual session has not completed sixteen units of work from Group I and who has not as well obtained at least 67% on each of two subjects representing eight units of credit, which subjects he proposes to elect in connection with his further work in the Senior Honors Division.

Group II (from which work of the weight of thirty-two units must be completed):

Botany IV H (8), Botany V (8);
Chemistry IV H (8), Chemistry V (8);
Geology IV H (8), Geology V (8);
Mathematics IV H (8), Mathematics V (8);
Physics IV H (8), Physics V (8);
Zoology IV H (8), Zoology V (8).

Upon completion of the above course the student will receive the degree of Bachelor of Science with honors.

At the close of the Second Year of the Senior Honors Division a student may be denied the right to go forward with the Honors work of the Third Year, where, in the opinion of both committees of examiners concerned with the rating of his work, his achievement does not warrant it, and the University Council may, on the joint recommendation of the two committees, admit him to the Bachelor of Science degree in the General Course provided he has not fallen below 50 per cent. on any paper.

*If Astronomy III is elected, Mathematics III and Physics III must also be taken.

II—MASTER OF SCIENCE

The following are the requirements for the degree of Master of Science (M.Sc.):

1. To be accepted as a candidate for the degree of Master of Science an applicant must hold the degree of Bachelor of Science of the University of Manitoba* or possess such qualifications as the Committee on Post-Graduate Studies of the General Faculty Council, after reference to the Science Committee of the Faculty of Arts and Science, may deem to be the equivalent of this degree. If his degree be the pass Bachelor of Science degree of the University of Manitoba he must have obtained a standing of at least 67 per cent. in either the Third or the Fourth Year of his undergraduate course in the subject or subjects in which he proposes to elect work for the Master of Science degree.†

2. (a) The candidate for the Master of Science degree who, on admission, possesses the Honors B.Sc. degree of the University of Manitoba or an equivalent degree must, to earn the Master's degree, complete at least one year of graduate work in one or more of the following departments of the University of Manitoba: Mathematics, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Biochemistry. He shall complete and pass an examination on two courses of study, one closely related to the subject of his thesis and the other on an allied subject. His work shall be done under the direction of at least two members of the University Faculty of Arts and Science. The thesis and main course of study shall be taken in a department in which the student has completed the work of the Senior Division in his undergraduate course; the other may be taken in the same or an allied department.

(b) The candidate for the Master of Science degree who, on admission, possesses the Pass B.Sc. degree of the University of Manitoba or an equivalent degree, must, to earn the Master's degree, complete at least two years of work in two of the following departments of the University of Manitoba: Mathematics, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Biochemistry.

He shall first obtain in ordinary course by attendance and examination sixteen units of credit in Honors Courses as prescribed for those proceeding to the Honors B.Sc. degree.* Of these, eight units shall be for courses listed as Fifth Year Honor courses by the Department in which the candidate shall later elect to submit his thesis and of the remaining eight not more than four may be for courses under this Department. These sixteen units of credit, when completed, do not entitle the candidate to the Honors B.Sc. degree.

*A holder of the University of Manitoba B.Sc. degree of 1926 or earlier, will not be admitted to candidature for the Master of Science degree without complying with the requirement of additional preliminary work in Honors courses (as laid down in 2 (b) above), except in those cases in which the work done at the time the Bachelor's degree was taken, was fully equivalent, in the subjects elected for the Master's degree, to that at present required for the Honors degree.

†An applicant possessing the pass Bachelor of Science degree, who has not met the standard of at least 67 per cent in either the Third or the Fourth Year of his undergraduate course in the subject or subjects in which he proposes to elect work for the Master of Science degree, may, on the recommendation of the department or departments concerned and with the concurrence of the Committee on Post-Graduate Studies, be permitted to take the required sixteen units of Honors B.Sc. work on a provisional basis, but may not proceed further with his M.Sc. course unless he attains a standard of at least 67 per cent on this work.

He shall then complete and pass an examination on two courses of study, one closely related to the subject of his thesis and the other on an allied subject. His work shall be done under the direction of at least two members of the University Faculty of Arts and Science. The thesis and main course of study shall be taken in a department in which the student has completed the work of the Senior Division in his undergraduate course and has studied during the First Year of his post-graduate course; the other may be taken in the same or an allied department. A total of 800 marks is assigned to the entire work for the M.Sc. degree, distributed as follows: 200 marks for the minor subject and 600 marks for the major subject and the thesis.

3. Every candidate for the Master of Science degree shall submit a thesis based on original work done under the direction of the department in which he has elected to do his research and this thesis must be found satisfactory by the candidate's examining committee.

4. A Bachelor of Science of the University of Manitoba may be permitted to meet the requirements for the Master of Science degree by courses of study taken in another University if such work be approved by the Committee on Post-Graduate Studies after reference to the Science Committee of the University Faculty of Arts and Science.

5. (a) Every applicant for admission as a candidate for the Master of Science degree should first consult with the heads of the departments of instruction in which he proposes to work and should arrange to submit, through them, to the Committee on Post-Graduate Studies, for approval, not later than October 15th in any academic year, an outline of the courses he plans to undertake. When those have been approved he will be notified of the fact by the Secretary of the Committee on Post-Graduate Studies and must then become registered at once as a candidate for the degree and pay the required fees.

(b) The nature of the thesis shall subsequently receive the approval of the Committee on Post-Graduate Studies after reference to the Science Committee of the University Faculty of Arts and Science.

6. For the examination of the thesis of each candidate the examining committee shall consist of the instructors under whose direction the work has been performed and one other nominated by the Committee on Post-Graduate Studies. The pass-mark at written examinations for the M.Sc. degree is 60%; the thesis, to be satisfactory, must receive a grade of at least 67%.

7. The thesis in its completed form shall be submitted not later than the 15th of April in any year to ensure the conferring of the degree at the Annual Convocation of that year. At least four printed or typewritten copies of the thesis shall be submitted by the candidate. One of these will subsequently be deposited in the University Library. It is desirable that uniformity in style, format, etc., be observed and in reference to these matters the candidate should consult the Secretary of the Committee on Post-Graduate Studies.

8. By special arrangement, the course for the degree of Bachelor of Science in Agriculture is accepted as being equivalent, as a foundation for graduate study in Science, to a pass B.Sc. degree. The holder of the B.S.A. degree, having taken a course, in which of necessity, the technical applications of the various sciences have been emphasized and a minimum of time spent on pure science, should, in his first year of additional study, in which

he raises his standing to one that is equivalent to that of the Honors B.Sc., take most of his work in the field of pure science. He is required, therefore, to take sixteen units of work in Senior Division courses Pass or Honors (not less than eight and not more than twelve in the field in which his major subject will fall and four at least in some other department). His course work would in the main be taken under the Faculty of Arts and Science and his investigational work under the Faculty of Agriculture and Home Economics. The following Science Departments of that Faculty are now prepared to undertake graduate work: Agronomy; Chemistry; Plant Pathology (with the co-operation of the Dominion Rust Laboratory); Bacteriology and Animal Pathology. For further details consult the Calendar of the Faculty of Agriculture and Home Economics.

Since students are admitted to the course leading to the B.S.A. degree with any complete Grade XI standing (including that of the Entrance to Normal Course of the Manitoba Department of Education, which does not necessarily require knowledge of a foreign language), candidates for the M.Sc. degree holding the Bachelor's degree in Agriculture, are required to establish a reading knowledge of either French or German before proceeding to their final examination.

CLASS TIME-TABLES

On the three pages following are given the Class Time-tables for the session 1931-1932, as arranged by the Faculty of Arts and Science for students taking classes under that Faculty in the Junior Division in Arts and Science and in the Senior Pass Division. Only such elections of subjects will be permitted as are provided for without conflict in these time-tables. This factor should be considered in preparing a programme of studies to be submitted to the Dean for his approval.

Time-tables for the Fourth and Fifth Years in the Senior Honors Division in Arts and in the Senior Honors Division in Science will be prepared and announced at the opening of the session.

THE FACULTY OF ARTS AND SCIENCE RESERVES
THE RIGHT TO CHANGE THESE TIME-TABLES, WITH-
OUT NOTICE.

TIME TABLES 1931-1932
JUNIOR DIVISION IN ARTS AND SCIENCE

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-9.50	English I (A-K) Mathematics I (L-Z) History II Zoology IIM	English I (L-Z) Mathematics I (A-K) Botany II, IIM Geometry II History II, Seminar (Sec. 1)	English I (L-Z) Mathematics I (A-K) German IIA History II Chemistry II	English I (A-K) Mathematics I (L-Z) German IIA Latin II Physics II History II, Seminar (Sec. 2)	English I (L-Z) Mathematics I (A-K) German IIA History II Chemistry II
10. 10-11	French I, Authors (4, 5, 6) German IA (Sec. 1, 2, 3) Chemistry I (Sec. 1) Chemistry IIM (Pract.) (10 a.m.-1 p.m.) French II, Practice (1, 2) Latin II Physics II	French I, Practice (1, 2, 3) German IA (1, 2, 3) Latin I, Authors English II, Verse (1, 2, 3, 4)	French I, Authors (1, 2, 3) Latin I, Prose Chemistry I (Tutorial) (Sec. A) English II, Prose (1, 2, 3, 4) Mathematics IIA	French I, Practice (1, 2, 3) German IA (1, 2, 3) Latin I, Authors Chemistry IIM (Pract.) (10 a.m.-1 p.m.) French II, Authors (1, 2) History II, Seminar (Sec. 3)	French I, Practice (4, 5, 6, 7, 8) German IA (1, 2, 3) Chemistry I (Tutorial) (Sec. B) English II, Verse (1, 2, 3, 4)
11. 10-12	German I German IA (4) Mathematics IA Physics I History I (Sec. 1) Calculus II French II, Practice (3, 4) Philosophy II Zoology II	English I (A-K) Mathematics I (L-Z) Botany IIM (Pract.) (11 a.m.-1 p.m.) French II, Authors (1, 2) German II Greek II Physics II	German I German IA (4) Mathematics IA Physics I History I (Sec. 1) Latin II French II, Practice (1, 2) Zoology IIM	French I, Authors (4, 5, 6) Calculus II, Practice (3, 4) Philosophy II Zoology II	Drawing I German I German IA (4) Physics I History I (Sec. 1) Astronomy II French II, Practice (5) German II Greek II Zoology IIM

JUNIOR DIVISION IN ARTS AND SCIENCE

12.10-1	French I, Authors (1, 2, 3) Latin I, Authors Chemistry II English II, Prose (5, 6) German II Chemistry I (Tutorial) (Sec. C)	Chemistry I (Sec. 2) Economics II History I (Sec. 2) Greek I	English I (A-K) Mathematics I (L-Z) Astronomy II Chemistry II Chemistry IIM German II	Chemistry I (Sec. 1) Greek I English II, Prose (5, 6) History II, Seminar (Sec. 4)	Chemistry I (Sec. 2) History I (Sec. 2) Chemistry IIM Geology II Chemistry I (Tutorial) (Sec. D)
2.10-3	Chemistry I (Pract.) Sec. A (2-5 p.m.) History I (Sec. 2) Physics I (Practical) Sec. A (2-4 p.m.) English II, Prose (1, 2, 3, 4) Mathematics IIA	French I, Practice (4, 5, 6, 7, 8) Physics IIM (Practical) (2-5 p.m.) Latin II	Chemistry I (Pract.) Sec. B (2-5 p.m.) Physics I (Pract.) Sec. B (2-4 p.m.) Drawing I (Practical) (2-5 p.m.) Geology II Greek II IIM (Practical) (2-5 p.m.)	English I (L-Z) Mathematics I (A-K) Botany II, IIM Geometry II Greek II	Chemistry I (Pract.) Sec. C, (2-5 p.m.) Physics I (Pract.) Sec. C, (2-4 p.m.) Geology II (Practical) (Sec. 3, 4) (3-5 p.m.) Zoology IIM (Practical) (2-5 p.m.) Economics II
3.10-4	Greek I Chemistry IIM Botany II (Practical) Zoology II (Practical) on Alternate Weeks. (3-5 p.m.)	Chemistry II (Practical) (3-6 p.m.) French II, Authors (3, 4)	Greek I French II, Practice (5) Geology II (Practical) (3-5 p.m.) Physics II (Practical) (3-5 p.m.)	German I German IA (4) French II, Authors (3, 4) Chemistry II (Pract.) (3-6 p.m.) Physics I, Practical (sec. D) (3-6 p.m.)	

4.10-5 German IIA

SENIOR PASS DIVISION IN ARTS AND SCIENCE

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-9.50	French III, Authors Practical Geography III (9 to noon) Economics IV Greek IV Physics IV	Latin III Sociology III Practical Mineralogy III (9 to 11 a.m.) French IV, Pract. (Sec. 2) Latin IV Physics IV	French III, Authors Physics III Botany IV German IV	Social Psychology III Mathematics III German III Chaucer III (Sec. 2) Mechanics IV Zoology IV French IV, Authors	French III, Pract. (Sec. 1) Physics III German IV Physical Chemistry IV
10.10-11	Economics III Theory of Probability IV History IV Physical Chemistry IV	History III Mathematics IIIA Mathematics IV Hist. of Philosophy IV Problems of Philos. IV	Mathematics III Hist. of Philosophy III Experiment. Psychol. III German III History IV Theory of Probability IV	History III Mathematics IIIA Mathematics IV Hist. of Philosophy IV Problems of Philos. IV Practical Zoology IV (10 a.m. to 1 p.m.)	Mathematics III Hist. of Philosophy III Exp. Psychology III Zoology III History IV Physics IV Theory of Statistics IV
11.10-12	Roman Hist. III and IV Latin III and IV, Prose French III, Pract. (Sec. 3) Sociology III Geology IV	Chemistry III French III, Practice (Sec. 2) German III English IV Theory of Statistics IV	English III Zoology III English IV	Latin III Sociology III Pract. Botany III (11 a.m. to 1 p.m.) English IV Greek IV	English III Chemistry III French IV, Pract. (Sec. 2) Geology IV Latin IV
12.10-1	Mathematics III Social Psychology III Chaucer III (Sec. 2) Zoology III English IV	French III, Practice (Sec. 1) Physics III French IV, Authors	Latin III French III, Pract. (Sec. 3) Geology III Sociology III Mathematics IV Hist. of Philosophy IV	English III French III, Practice (Sec. 2) Latin IV	Geology III History III Mathematics IV Hist. of Philosophy IV
2.10-3	Greek III German III Practical Chemistry III (2 to 5 p.m.) German IV Psychol. of Religion IV Practical Physics IV (2 to 5 p.m.)	Botany III Greek III German IV Greek IV Psychol. of Religion IV Practical Geography IV (2 to 5 p.m.)	Greek III Pract. Physics III (2 to 5 p.m.) Greek IV Economics IV Practical Botany IV (2 to 4 p.m.)	Botany III Greek III Economics IV	Practical Chemistry III (2 to 5 p.m.) Botany IV Economics IV
3.10-4	English III Sociology IV	Economics III Practical Botany III (3 to 5 p.m.) French IV, Practice (Sec. 1) Sociology IV	Economics III Sociology IV	Economics III Practical Zoology III (3 to 6 p.m.) French IV, Practice (Sec. 1) Sociology IV	Pract. Botany IV (3 to 5 p.m.)
4.10-5					

COURSES IN ARTS AND SCIENCE IN DETAIL

DEPARTMENT OF BOTANY

A. H. Reginald Buller, B.Sc., Ph.D., D.Sc., LL.D., F.R.S.C., F.R.S.	<i>Professor</i>
H. F. Roberts, B.A., M.Sc., F.A.A.S.	<i>Assistant Professor</i>
C. W. Lowe, M.Sc.	<i>Lecturer</i>
Margaret G. Dudley, M.Sc.	<i>Demonstrator</i>

Botany II M—Courses 1, 2; 3, 4.

Botany II—Courses 1, 2; 3a, 4a.

Botany III—Courses 5, 6, 7, 8. (Prerequisite, Botany II or equivalent.)

Botany IV—Courses 9, 10, 11, 12 or 13, 14, 15, 16. (Prerequisite, Botany III or equivalent.)

Botany IV H—Courses 9, 10, 11, 12 or 13, 14, 15, 16; and 17, 18, 19, 20. (Prerequisite, Botany III or equivalent.)

Botany V—Courses 9, 10, 11, 12 or 13, 14, 15, 16; and 21, 22, 23, 24. (Prerequisite, Botany IV H or equivalent.)

First Year Pharmacy (Diploma Course)—Courses 1, 2; 3, 4.

Second Year Pharmacy (Degree Course)—Courses 1, 2; 3, 4.

Third Year Pharmacy (Degree Course)—Courses 9, 10; 11, 12.

Students intending to enter courses in Botany in the Senior Honors Division in Science are advised to consult page 32 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

N.B.—For key to system of numbering courses, see page 4.

1, 2. General Botany. An introductory lecture course covering, among other topics, the following: Classification of objects; comparison of living and non-living matter; the differences between animals and plants. The structure of the seed and contents of its cells; the seeds of the pea, bean, castor oil plant, and date palm; the grains of wheat and corn; the conditions for germination, and the phenomena accompanying it; the exhaustion of the reserve food-stuffs. The seedling: its structure, mode of development and relations with external conditions; the theory of irritability; geotropism, heliotropism and hydretropism; the further development of shoot and root. The general morphology of the plant body, and the principal modifications of the stem, leaf and root; buds, grasshauks, stolons, runners, rhizomes, corms, tubers, bulbs, spines and thorns, tendrils, cladodes, phyllodes, compound leaves, etc.; the growing point of stems; the origin of new leaves and buds. The cell and the cell theory; protoplasm as the physical basis of life; protoplasmic movement; turgidity; the structure and division of the nucleus; the origin of new cells by cell division. The internal morphology of the stem of monocotyledons and of dicotyledons; the functions of vascular bundles; the cambium and the

secondary thickening of stems and roots; the secondary protective tissues, cork and bark. The leaf as an organ for carrying on the process of photosynthesis; the epidermis, including hairs and stomata, vascular bundles, mesophyll, and intercellular spaces; photosynthesis (carbon assimilation); the nature and function of chlorophyll corpuscles and of chlorophyll; the evacuation of the products of photosynthesis and their ultimate fate. The root: its root-tip, root hairs, and mode of branching; the growing point. Climbing plants; stem-climbers and tendril climbers; the physiology of climbing; lateral geotropism, reactions to the stimulus of contact. The elementary facts in the nutrition of the plant; the nature and sources of the raw food materials; the necessary chemical elements and their mode of absorption; water cultures; the constitution of the soil; the transpiration current; transpiration; photosynthesis; the products of metabolism, together with their distribution, storage, and utilization; respiration contrasted with photosynthesis. Carnivorous plants; *Drosera*, *Utricularia*, *Sarracenia*, *Dionaea* and *Nepenthes*. The classification of plants, including the main sub-divisions of the vegetable kingdom; the morphology and physiology of the following *Thallophyta*: *Protococcus* (*Pleurococcus*), *Saccharomyces* (yeast), *Bacteria*, *Spirogyra*, *Fucus*, *Mucor*, *Penicillium*, *Psalliota campestris* (mushroom). Alcoholic fermentation; *Bacteria* as the cause of nitrogen fixation, of fermentative processes, of putrefaction, and of disease. The *Bryophyta*, illustrated by a moss plant; the *Pteridophyta*, illustrated by a fern plant; alternation of generations. Reproduction in the *Phanerogamia*; the flower and its chief modifications in structural plan; the minute structure of the pollen grain and of the ovule; Pollination and its agents; floral mechanisms as illustrated by the Lady Slipper Orchid, *Primula*, *Salvia*, etc. Fertilization of the ovule; development of seeds and fruits; the plum, Strawberry, orange, cocoanut, etc.; dispersion of seeds and fruits; the nature of pine cones, both male and female. Two hours a week.

3, 4. Laboratory Course in General Botany. This course is designed to accompany courses 1, 2. One practical period of two hours per week.

3a, 4a. Laboratory Course in General Botany. This course for students in Arts and Science is designed to accompany courses 1, 2. One practical period of two hours fortnightly.

5, 6. Morphology and Physiology of the Flowering Plant. A lecture course of two hours per week.

7, 8. Laboratory Course on Morphology and Physiology of the Flowering Plant. Four hours per week.

9, 10. Systematic Botany of the Cryptogamia. A detailed treatment of the *Thallophyta* and *Bryophyta*. A lecture course of two hours per week.

11, 12. Laboratory Course in Systematic Botany. This course is designed to accompany course 9, 10. Four hours per week.

13, 14. Systematic Botany of the Cryptogamia and Phanerogamia. A detailed treatment of the *Bryophyta*, *Pteridophyta*, and the facts of reproduction in the *Phanerogamia*. A lecture course of two hours per week.

15, 16. Laboratory Course in Systematic Botany. This course is designed to accompany course 13, 14. Four hours per week.

17, 18. Plant Ecology, or Palaeobotany. Two lectures per week.

19, 20. Laboratory Course designed to accompany course 17, 18. Four hours per week.

21. Advanced Plant Physiology. Lecture course of two hours per week during the first term.

22. Advanced Practical Physiology. This course is designed to accompany course 21. Problems in plant physiology are assigned to each student. Four hours per week during the first term.

23. Genetics. This course is designed to deal with the principles of genetics, especially in relation to plant life. It involves a study of the laws underlying inheritance, the causes of variation, and the physical basis of heredity. Two lectures per week during the second term.

24. Practical Genetics. This course is designed to accompany course 23. The practical features of plant breeding are dealt with in detail and a number of experiments in hybridizing are made. Four hours per week during the second term.

Students intending to take any Senior Honors Division Course in Botany are expected to make themselves acquainted with the Canadian families of flowering plants during the preceding summer vacation if they have not already done so. As many different species as possible should be collected and dried. The most suitable flora to consult is Gray's New Manual of Botany. Advice in respect to collecting, drying, mounting, and naming the specimens may be obtained from members of the botanical staff.

For students taking senior courses, at the beginning of the session, there will be several excursions to the prairie, woods, and river-side for the purpose of studying the algae, fungi, and flowering plants in relation to their environment.

The laboratory of the Department will be open and encouragement given to qualified students desiring to carry on research on some botanical problem.

TEXT BOOKS

Buller: Practical Botany; Haupt: Fundamentals of Biology; Youngken: Pharmaceutical Botany; Sargent: Plants and their Uses; For Senior Division, Maximov: Text Book of Plant Physiology; Strasburger: Text Book of Botany; Coulter, Barnes & Cowles: Text Book of Botany; R. C. Punnett: Mendelism; Holman & Robbins: Text Book of General Botany; McDougall: Plant Ecology; Babcock & Clausen: Genetics in Relation to Agriculture.

DEPARTMENT OF CHEMISTRY

Matthew A. Parker, B.Sc., LL.D., F.I.C., F.C.I.C., F.R.S.C.....	<i>Professor</i>
Henry P. Armes, B.Sc., Ph.D., F.C.I.C.....	<i>Associate Professor</i>
Alan N. Campbell, M.Sc., Ph.D., D.Sc., F.I.C.....	<i>Assistant Professor</i>
Paul G. Hiebert, M.A., M.Sc., Ph.D., F.C.I.C.....	<i>Assistant Professor</i>
H. Vincent Kidd, B.Sc.....	<i>Assistant</i>
J. P. Tully.....	<i>Student Demonstrator</i>
Miss E. Brown, Miss Muriel James, B.A., Miss Jessie Wylie, N. S. Yanick, B.Sc., E. Solomon, B.Sc., Edward Johnson, Stewart Johnston, L. Swyers, L. J. Sheps, C. A. Ayre, R. O. McMurphy, B.Sc., H. Dyson Carter, R. F. Hunter, L. Slotin.....	<i>Student Assistants</i>

Chemistry I A—Courses 1a, 2a; 3a, 4a.

Chemistry I—Courses 1, 2; 3, 4. (Prerequisite, in 1931-1932, and thereafter Grade XI Chemistry.)

Chemistry II—Courses 5, 6; 7, 8. (Prerequisite, Grade XII Chemistry or Chemistry I or Chemistry IA).

Chemistry II M*—Courses 9, 10; 11, 12. (Prerequisite, Grade XII Chemistry, Chemistry I or Chemistry IA).

Chemistry III—Courses 15, 16; 17, 18. (Prerequisite, Chemistry II).

Chemistry IV—Courses 19, 20; 21, 22†. (Prerequisites, Chemistry III and Physics I).

Chemistry IV H—Courses 19, 20; 21, 22; 23, 24; 25, 26; 29, 30. (Prerequisites, Chemistry III and Physics I).

Chemistry V—Any *two* of Courses 31, 32; 33, 34; 35, 36; and, in addition, *either* 39, 40; *or* 41, 42. (Prerequisite for 35, 36, Mathematics II.)

First Year Pharmacy (Degree and diploma course)—Courses 1, 2; 3, 4.

Second Year Pharmacy (Degree course)—Courses 15, 16; 11, 12.

Third Year Pharmacy (Degree)—Courses 19, 20; 21, 22; 23, 24; 25, 26.

Fourth Year Pharmacy (Degree)—Courses 31, 32; 39, 40.

First Year Engineering—Course 13, 14.

Fourth Year Electrical Engineering—Course 37.

Students intending to enter courses in Chemistry in the Senior Honors Division in Science are advised to consult page 32 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

N.B.—For key to system of numbering course, see page 4.

The following courses are given:

1a, 2a. Elementary Inorganic Chemistry. An introductory course leading up to the study of the fundamental principles of Chemistry; elements and compounds; laws of combination; atoms and molecules; acids, bases, salts; properties of some common elements and their more important compounds. The subject is treated in an elementary way. Textbook recommended, McPherson and Henderson's "An Elementary Study of Chemistry." Two hours per week lectures, and one hour tutorial.

1, 2. Elementary Inorganic Chemistry. Fundamental principles of chemistry; elements and compounds; laws of combination; atoms and molecules; acids, bases, salts; properties of some common elements and their more important compounds. The subject is treated in an elementary way. Textbook recommended, McPherson and Henderson's "An Elementary Study of Chemistry." Two hours per week lectures, and one hour tutorial.

3a, 4a. Practical Chemistry. Experiments illustrating general principles and the preparation and properties of substances studied in course

*For students desiring standing for entrance to Medicine in two years.

†It is highly desirable that students taking course 21, 22, should have standing in Mathematics II, or its equivalent.

1a, 2a. One period of three hours per week of practical work and one period of three hours per week of combined tutorial and practical work.

3, 4. **Practical Chemistry.** Experiments illustrating general principles and the preparation and properties of substances studied in course 1, 2. One period of three hours per week.

5, 6. **Inorganic Chemistry.** A continuation of course 1, 2, dealing with some of the more general subjects barely touched on in the elementary course. Two hours per week lectures. Textbook, General Chemistry, by Schlesinger.

7, 8. **Inorganic Analysis.** A laboratory course in qualitative inorganic analysis and introductory quantitative analysis. Two periods of three hours per week.

9, 10. **Inorganic and Organic Chemistry.** The subjects dealt with are selected with regard to their importance for medical students. About half of the course deals with inorganic and half with organic chemistry. Three hours per week lectures. Textbooks, General Chemistry by Schlesinger and J. B. Cohen's Theoretical Organic Chemistry.

11, 12. **Laboratory Course for 9, 10.** Qualitative analysis; simple gravimetric and volumetric analysis; reactions of some organic substances; preparations. Two periods of three hours per week.

13, 14. **Quantitative Analysis** leading up to methods of water analysis, coal analysis, etc., of interest to engineering students. One period of three hours per week.

15, 16. **Organic Chemistry.** An introduction to the study of organic chemistry. General principles; fatty compounds; some typical carbocyclic and a few heterocyclic compounds. Two hours per week. Textbook recommended, Perkin and Kipping's Organic Chemistry.

17, 18. **Practical Organic Chemistry.** Preparation of organic compounds and study of their properties. Two periods of three hours per week.

19, 20. **Inorganic Analysis.** A laboratory course in continuation of course 7, 8. Two periods of three hours per week, including one hour lecture demonstration.

21, 22. **Physical Chemistry.** Introduction to Physical Chemistry. Two hours per week lectures. Textbook recommended, Outlines of Physical Chemistry by Senter. (It is highly desirable that students attending this course should have standing in Mathematics II, or its equivalent.)

23, 24. **Practical Physical Chemistry.** Physico-chemical measurements. A laboratory course. One period of three hours per week.

25, 26. Colloid Chemistry. An introductory course on the chemistry of colloids, consisting of one lecture per week and one practical period per week throughout the session.

29, 30. Theory of Chemical Analysis. A course dealing with the theory of the technique and processes of analytical chemistry. One hour per week.

31, 32. Advanced Organic Chemistry. An advanced course on Theories, Reactions and Methods of Organic Chemistry. Two hours per week.

33, 34. Advanced Inorganic Chemistry. Chiefly descriptive inorganic chemistry; subjects chosen with reference to literature available in the library. Two hours per week.

35, 36. Advanced Physical Chemistry. A course consisting of one lecture per week (first term), two lectures per week (second term), and one practical period per week throughout the session. The lecture course forms a continuation of course 21, 22, giving particular attention to electro-chemical theory and thermodynamics. The laboratory course includes electro-chemical and other advanced physico-chemical measurements. Text book recommended, Vol. II of Lewis' System of Physical Chemistry. (Mathematics II is a prerequisite for this course.)

37. Electro-Chemistry. Theories and laws relating to practical applications of electro-chemical processes. Two hours per week first term. Textbook recommended, Allmand's Principles of Applied Electro-Chemistry.

39, 40. Advanced Practical Organic Chemistry. Methods of organic analysis; organic preparations. Four periods of three hours per week.

41, 42. Advanced Practical Inorganic Chemistry. Methods of inorganic analysis, a continuation of courses 19, 20. Four periods of three hours per week.

Special students may be enrolled for the purpose of carrying on such advanced work as the equipment permits of, and special facilities will be given to those capable of engaging in research work.

Each student is supplied with such apparatus as may be required, with the exception of platinum wire and foil, laboratory towel, etc., which he must provide for himself.

A deposit of five dollars is paid to the Registrar at the beginning of each session, and all breakages will be made good out of this.

A record of all laboratory work must be kept in regulation report books. These are examined periodically during the session, and must be handed to the examiners in chemistry previous to the practical examination for the degree.

Attention is called to the regulation regarding practical work and reports on page 122.

DEPARTMENT OF CLASSICS

F. W. Clark, B.A., Ph.D.....	<i>Professor of Latin and Greek</i>
W. M. Hugill, B.A.....	<i>Assistant Professor of Latin and Greek</i>
Skuli Johnson, M.A.....	<i>Assistant Professor of Latin and Greek</i>
W. G. Speechly, B.A.....	<i>Fellow</i>

GREEK

- Greek I**—Courses 1, 2.
Greek II—Courses 3, 4. (Prerequisite, Matriculation Greek or Greek I).
***Greek IIA**—Courses 7, 8.
Greek III—Courses 7, 8, 11, 12. (Prerequisite, Greek II).
Greek IV—Courses 7, 8, 11, 12. (Prerequisite, Greek III).
Greek IVH—Courses 7, 8, 11, 12, 17, 18. (Prerequisite, Greek III).
Greek VH—Courses 11, 12, 15, 16, 17, 18. (Prerequisite, Greek IVH).

N.B.—For key to system of numbering courses, see page 4.

1. **Beginner's Greek Course.** This course is intended for students who have not had the opportunity of taking Greek for Matriculation. The purpose is to prepare students as rapidly as possible for the reading of Greek. Gleason's Greek Primer (American Book Co.), Lessons I-XXX. Four hours a week.

2. **Beginner's Greek Course.** Continuation of Course I. Gleason's Greek Primer, Lessons XXXI-LVII; and **Xenophon**, *Easy Selections from Xenophon*, pages 1-20 (Phillpotts and Jerram, Oxford Press). Sight translation. Four hours a week.

3. (a) **Gleason's Greek Primer**, Lessons 58, 59, 61-64, 66, 67.

(b) **Xenophon**, *Selections from Xenophon's Hellenica* (Phillpotts, Oxford Press), sections II and VI. Sight translation. Four hours a week.

4. **Homer**, *Iliad*, Books I-VI (Seymour, Ginn & Co.). The following extracts will be read: I, 1-317; III, 1-244; VI, 237 to end. Sight translation. Four hours a week.

5. **Lucian**, *Charon* (Heitland, Cambridge Press). **Homer**, *Odyssey* VI and IX (Merry, Books I-XII, Oxford Press). Sight translation. Three hours a week. (Not given in 1931-32).

6. **Plato**, *Ion* (Stock, Oxford Press) and *Menexenus* (Shawyer, Oxford Press). **Sophocles**, *Ajax* (Pearson, Cambridge Press). The choral odes will be read in translation. Sight translation. Three hours a week. (Not given in 1931-32).

7. **Homer**, *Odyssey VII* and *X* (Merry, Oxford Press). **Plato**, *Euthyphro* (Graves, Macmillan's Elementary Classics). Sight translation. Three hours a week.

*To be taken by Second Year students who, entering with Matriculation Greek, have taken Greek II in the First Year.

8. **Herodotus**, Book VIII, chapters 56-101. (Shuckburgh, Cambridge Press). **Euripides**, *Hecuba* (Bond and Walpole, Macmillan's Elementary Classics). The choral odes will be read in translation. Sight translation. Three hours a week.

9. **Greek Poetry in Translation**. The following works will be studied: Aeschylus—*Prometheus Bound* (Morshead, Golden Treasury Series). Sophocles—*Electra*, *Antigone* (Jebb; or Starr, Loeb Library). Euripides—*Electra* (Murray). Aristophanes—*The Birds* (Rogers). Pindar—*Pythian Odes* 1, 4 (Sandys, Loeb Library). One hour a week. (Not given in 1931-32.)

10. **Greek Antiquities**. Greek private life, education, religion, national games; the public buildings of Athens. Assigned readings and reports. One hour a week. (Not given in 1931-32.)

11. **Greek History**. Bury's *History of Greece*, chapters IV (p. 180) to IX. Lectures and readings on the period from 500 B.C. to 431 B.C. The Persian Wars, the development of the democracy in Athens and the growth of the Athenian Empire. Special topics and papers will be assigned. One hour a week.

12. **Greek History**. Continuation of 9, involving a study of Bury's *History of Greece*, chapters X to XVII, omitting XV. Lectures and readings on the period from 431 B.C. to 338 B.C. The Peloponnesian war, the Spartan and Theban hegemonies, the rise of Philip of Macedon and the campaigns of Alexander. Special topics and papers will be assigned. One hour a week.

13. **Homer**, *Iliad* XVI, XVIII, XXIII (Monro, Oxford Press). **Demosthenes**, *Philippic* I and *Olynthiacs* II and III (Abbott and Matheson, Oxford Press). Sight translation. Four hours a week. (Not given in 1931-32.)

14. **Aeschylus**, *Prometheus Vincit* (Prickard, Oxford Press). **Sophocles**, *Philoctetes* (Shuckburgh, Cambridge Press). **Aristophanes**, *Birds* (Merry, Oxford Press). Sight translation. Four hours a week. (Not given in 1931-32.)

15. **Homer**, *Odyssey* VII, X, XIII, XXIII (Merry, Oxford Press). **Plato**, *Euthyphro* (Graves, Macmillan). Sight translation. Three hours a week.

16. **Herodotus**, Book VIII, chapters 1-101 (Shuckburgh, Cambridge Press). **Euripides**, *Hecuba* (Bond and Walpole, Macmillan). Sight translation. Three hours a week.

17. **Thucydides**, Book VII (Marchant, Macmillan). Sight translation. Four hours a week.

18. **Sophocles**, *Antigone* (Shuckburgh, Cambridge Press). **Euripides**, *Iphigenia in Tauris* (Jerram, Oxford Press). **Aristophanes**, *Clouds* (Merry, Oxford Press). Sight translation. Four hours a week.

M.A. Courses will be outlined by the Department on request.

LATIN

- Latin I**—Courses 1, 2; 3, 4. (Prerequisite, Matriculation Latin.)
Latin II—Courses 5, 6. (Prerequisite, Latin I).
Latin III—Courses 7 and 8 or 9 and 10; with 13, 14. (Prerequisite, Latin II.)
Latin IV—Courses 7 and 8 or 9 and 10; with 15, 16. (Prerequisite, Latin III.)
Latin IVH—Courses 7, 8, 9, 10, 15, 16, 19, 20. (Prerequisite, Latin III.)
Latin VH—Courses 9, 10, 19, 20, 21, 22. (Prerequisite, Latin IVH.)

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Grammar and Composition.** In preparation for this paper students will be expected to provide themselves with D'Ooge: *Concise Latin Grammar* (Ginn & Co.). Questions on Grammar will be set involving a knowledge of forms. In Composition sentences will be given for translation, based on the vocabulary of the prescribed prose authors and on the following principles of syntax: (a) First Term: the common case constructions; indirect statements; purpose clauses; result clauses; participles; direct and indirect questions; direct and indirect commands; intransitive verbs. (b) Second Term: the constructions set down for the First Term; gerund and gerundive; temporal clauses; causal clauses; conditional clauses (regular types); constructions after verbs of *Preventing* and *fearing*; subordinate clauses in indirect narration.

(Sets of sentences illustrating the above constructions are available at a nominal cost.)

3, 4. **Authors and Sight Translation.** A knowledge of the syntax and subject matter of the Authors read is also required. First Term: (a) **Aulus Gellius**, *Selected Stories*, edited by Nall (Macmillan's Elementary Classics). Selections VI, VIII, X-XII, XV-XVIII, XXI-XXIII, XXVII-XXX, XXXV, XXXVI, XXXVIII. (b) **Livy**: Selections 12-35, edited by Lamington (Macmillan's Elementary Classics). Second Term: (a) **Cicero**, *Letters* 1, 2, 3, 5, 8, 10, 11, 12, 13, 15, 16, 17, 18, 20, 23, 24, in *New Cicero* edited by Bennett (Allyn and Bacon). (b) **Virgil**, *Aeneid* I, lines 223-756, (Page, Macmillan's Elementary Classics). In addition students will be examined on the contents of *Aeneid* II and III, which are to be read in the verse translation by Rhoades. (Poems of Virgil in English Verse, Oxford Press.)

The time given to Latin I is four hours per week.

5, 6. **Authors and Sight Translation.** A knowledge of the syntax and subject matter of the Authors read is also required. Twenty per cent. of the paper will be assigned to Sight Translation. First Term: (a) **Livy**: *Career of Scipio Africanus*, chapters 1-4, 9-11, 39-41, 45-53 (Weatherhead, Cambridge Press). (b) **Catullus**, edited by Macmillan (Junior Latin Series, Press), Nos. 1, 3, 4, 9, 11, 13, 31, 35, 38, 44, 46, 49, 53, 64 (lines 132-250) 70, 73, 84, 85, 93, 96, 101. Second Term: (a) **Cicero**, *Pro Lege Manilia*, (Bennett, Allyn and Bacon). (b) **Horace**, *Odes*, Book I, edited by (Page, Macmillan's Elementary Classics), Nos. 1-4, 9, 11, 14, 22, 24, 29, 34, 35, 37, 38. Four hours a week.

Students who elect Latin as a subject in the Third and Fourth Years should provide themselves with: A Latin Dictionary (Lewis' *Latin Dictionary for Schools*, Oxford Press), *Latin Literature* (Mackail: Murray), A Classical Atlas (*Atlas of Classical Geography*, Everyman's Library).

7, 8. **Prose Composition.** Translation into Latin of representative passages from English authors. One hour a week.

9, 10. **Roman Antiquities.** Course of lectures particularly on Roman Private Life illustrated by lantern slides. Text Book: Tucker, *Life in the Roman World of Nero and St. Paul*. Other books to which the student will be referred are: Johnston, *Private Life of the Romans*; Rogers and Harley, *The Life of the Romans* (translated); Jones, *Companion to Roman History*; Friedlaender-Freese, *Roman Life and Manners under the Early Empire*; Sandy's *Companion to Latin Studies*; Platner, *Ancient Rome*; Fowler, *Social Life at Rome in the Days of Cicero*. One hour a week.

11, 12. **Roman History.** A study of the period from 133 B.C. to 37 A.D. First Term: 133 B.C.-49 B.C. Second Term: 49 B.C.-37 A.D. Pelham, *Outlines of Roman History* will serve as the basis for the course. Study of special topics in Mommsen; Taylor, *Constitutional and Political History of Rome*; Capes, *Early Roman Empire*; Shuckburgh, *Life of Augustus*. Assigned readings and reports. One hour a week. (Not given in 1931-32).

13. (a) **Pliny**, *Select Letters* by Westcott (Allyn and Bacon). Letters 1, 5, 9, 20, 28, 29, 37, 41, 48, 51, 71, 81, 87, 88, 90, 98, 99, 109, 110. (b) **Martial**, *Select Epigrams*, Volume I, by Bridge and Lake (Oxford Press). I: 2, 3, 10, 13, 15, 16, 18, 19, 20, 25, 29, 30, 32, 33, 38, 47, 52, 66, 75, 78, 98, 117; II: 5, 11, 16, 18, 27, 30, 41, 53, 64, 69, 77, 90; III: 4, 5, 12, 14, 15, 19, 38, 44, 52, 60, 63; IV: 2, 3, 8, 15, 18, 27, 31, 37, 41, 44, 86; V: 8, 9, 13, 14, 25, 34, 43, 47, 49, 56, 58, 79; VI: 8, 17, 35, 57, 59, 82, 86. Sight translation. Three hours a week.

14. (a) **Cicero**, *Pro Archia* (Bennett, Allyn and Bacon); (b) **Virgil**, *Aeneid*, Bks. IV and VI. (Page, Macmillan or Sidgwick, Cambridge Press). Sight translation. Three hours a week.

15. (a) **Livy**, Book XXI (Dimsdale, Cambridge Press). About 70 lines will be read. (b) **Virgil**, Selections from the *Eclogues* and *Georgics* (Gardiner, Oxford Press). Sight translation. Three hours a week.

16. (a) **Cicero**, *Select Letters* (Prichard and Bernard, Oxford Press). Nos. 4, 9, 10, 15, 17, 20, 21, 23, 26, 28, 34, 36, 37, 41, 45, 46, 57, 58. (b) **Horace**, *Odes*, III: 1, 2, 5, 9, 13, 18, 21, 23, 28, 29, 30. *Satires* I: 1, 5, 9. *Epistles* I: 2, 4, 7, 10, 11, 12, 20 (Horace, *Complete Works*, edited by Bennett and Rolfe, Allyn and Bacon). Sight translation. Three hours a week.

17. **Cicero**, *Pro Archia*, *Pro Marcello*, *In Verrem* IV, cc. 52-60. (New Cicero by Allen and Greenough, Ginn & Co.). **Virgil**, *Aeneid* VII (Page, Macmillan or Sidgwick, Cambridge Press). **Horace**, *Odes* IV: 2, 3, 4, 5, 7, 15. (Bennett and Rolfe, Allyn and Bacon). Sight translation. Three hours a week. (Not given in 1931-32).

18. **Horace**, *Satires* I: 6 and II: 5, 6, 8. **Virgil**, *Aeneid*, VIII and XII. Sight translation. Three hours a week. (Not given in 1931-32).

19. **Plautus**, *Trinummus* (Freeman and Sloman, Oxford Press). **Terence**, *Adelphi* (Sloman, Oxford Press). Sight translation. Three hours a week.

20. **Cicero**, (a) *Pro Milone* (Poynton, Oxford Press).

(b) *Philippic* II (*Philippics*, King & Clark, Oxford Press). Sight translation. Three hours a week.

21. **Sallust, *Catiline*** (Summers, Cambridge Press). **Lucretius, *De Rerum Natura***. Not less than 1500 lines will be read selected from Bks. 1, 3, 5 (Bks. 1-III, Lee, Macmillan; Bk. V, Duff, Cambridge Press). Sight translation. Four hours a week.

22. **Tacitus, *Annals* I, II** (Abridged edition by Furneaux, Oxford Press). **Juvenal, *Satires*, 1, 3, 10, 14** (Hardy, Macmillan). Sight translation. Four hours a week.

M.A. Courses will be outlined by the Department on request.

DRAWING

Milton Smith Osborne, B.Arch., M.Sc. (Arch.).....*Professor of Architecture*
 R. W. Moffat, B.A.Sc.....*Associate Professor of Civil Engineering*
 John A. Russell, B.Arch.....*Assistant Professor of Architecture*

Mechanical Drawing I—Courses 1, 2. (Available only with Mathematics IA.)

Architectural Drawing I—Courses 3, 4; 5, 6. (Available only with Mathematics IA.)

N.B.—For key to system of numbering courses, see page 4.

1, 2. Mechanical Drawing. Use of instruments; geometrical problems; elementary principles of orthographic, oblique and axonometric projections; the application of such principles to the solution of problems relating to straight lines and planes; intersections and developments; plans, elevations and sections of solids; simple structural details and machine parts; bolts, screws, keys and rivets; elements of perspective as used in sketching; sketches and working drawings of machine pieces; isometric drawing; lettering, shade lines and line shading. Lectures, one hour per week, practical work, 3 hours per week, both terms. Text book: "Engineering Drawing," by T. E. French. *Associate Professor Moffat.*

3, 4. Elements of Architecture. A study of the elements of buildings derived from classic precedent, including the Greek and Roman orders; architectural lettering; the principles and methods of architectural drawing and rendering in wash, illustrated by problems in the orders and elementary composition. Lectures, one hour per week; practical work three hours per week; two terms. Esquié, *Five Orders of Architecture*.

5. Shades and Shadows. Planned to give the fundamental knowledge necessary for casting the conventional shadows employed in architectural design. Given by means of drawing-room work in the nature of test-exercises based on lectures and textbook preparation. Lectures, one hour per week; practical work, three hours per week; first term. Gardner, *Notes on Shades and Shadows*.

6. Perspective. The fundamental phenomena of appearance, the general theory of conical projection, and its application to perspective, the method of revolved plan upon which all shorter methods are based, curves, and apparent distortion. The subject is continued with the study of direct division, direct measurement, relations between lines and points in the vanishing-point diagram, the cubic system, method of perspective plan, and shadows. Also given by means of drawing-room exercises in the nature of test-exercises based on lectures and textbook preparation. Lectures, one hour per week; practical work, three hours per week; second term. Lawrence, *Principles of Architectural Perspective*.

DEPARTMENT OF ENGLISH

(whether A. Lloyd English)

W. T. Allison, M.A., Ph.D.	Profess
Aaron J. Perry, M.A.	Profess
P. L. Carver, B.A.	Assistant Profess
R. Fletcher Argue, M.A.	Assistant Profess
Doris Saunders, M.A.	Lectur
Lorne A. McIntyre, M.A.	Lectur

English I—Courses, 1, 2. (Prerequisite, Matriculation English.)

English II—Courses 3, 4. (Prerequisite, English I.)

English IIA—Courses 3, 4 (Prose). (Prerequisite, English I.)

English III—Courses 5, 6, 7, 8. (Prerequisite, English II.)

English IV—Courses 9, 10, 11, 12. (Prerequisite, English III.)

English IVH—Courses 9, 10, 11, 12, 13, 14, 17, 18. (Prerequisite, English III.)

English V—Courses 17, 18, 19, 20, 21, 22, 23, 24. (Prerequisite, English IVH.)

Note—Every student should own a good English Dictionary. The Concise Oxford Dictionary is recommended.

N.B.—For key to system of numbering courses, see page 4.

1, 2. **English Poetry and Prose.** An introductory survey of English Literature, Poetry and Prose. First Year Arts, First and Second Term. Four hours a week.

(1) First Term: (a) **English Poetry.** Text: Greater English Poetry, edited by Crawford, Perry, and Woodhouse (Macmillan). The following poems:

- Jonson—Selections in text;
- Donne—Selections in text;
- Herrick—Selections in text;
- Herbert—Selections in text;
- Milton—On Shakespeare; L'Allegro; Il Penseroso; Sonnets II, VII, XIII, XIX, XXII, XXIII;
- Dryden—Absalom and Achitophel, lines 134-227; Epigram on Milton's Alexander's Feast;
- Pope—The Rape of the Lock;
- Collins—Ode to Evening;
- Gray—Ode on a Distant Prospect of Eton College; Elegy Written in a Country Churchyard;
- Goldsmith—The Deserted Village;
- Cowper—On the Receipt of My Mother's Picture; To Mary; The Castaway;
- Blake—Selections in text;
- Burns—Selections in text;
- Wordsworth—Simon Lee; Lines Composed a Few Miles Above Tintern Abbey; The Reverie of Poor Susan; We Are Seven; She was a Phantom of Delight; My Heart Leaps up; The Solitary Reaper; At the Grave of Burns Composed upon Westminster Bridge; On the Sea-Shore near Calais; Wandered Lonely as a Cloud; The World is too much with us;
- Coleridge—The Ancient Mariner; Kubla Khan.

(b) English Prose—

- 1 Bible—The Book of Ruth (King James Version);
- 2 Bunyan—Pilgrim's Progress, Part I (Nelson's Classics);
- 3 Swift—Gulliver's Travels, Parts I, II, III and IV (Houghton Mifflin Co.);
- 4 Defoe—Robinson Crusoe, Part I (Nelson's Classics);
- 5 Goldsmith—The Vicar of Wakefield (Nelson's Classics).

(2) Second Term. (a) **English Poetry.** Text: Greater English Poets, edited by Crawford, Perry, and Woodhouse (Macmillan). The following poems:

- Byron—She Walks in Beauty; The Prisoner of Chillon; Selections from Childe Harold;
 Shelley—Ode to the West Wind; To a Skylark;
 Keats—The Eve of St. Agnes; Ode on a Grecian Urn; La Belle Dame Sans Merci; Ode to a Nightingale;
 Poe—The Raven;
 Tennyson—The Lady of Shalott; Cenone; The Lotos-Eaters; Ulysses; Break, Break, Break; Tithonus; Idylls of the King; Crossing the Bar;
 Browning—Incident of the French Camp; My Last Duchess; Count Gismond; Home-Thoughts, From Abroad; Home-Thoughts, From the Sea; Up at a Villa—Down in the City; Andrea del Sarto; Prospice; Asolando; Epilogue;
 Arnold—The Forsaken Merman; To Marguerite; Rugby Chapel; Dover Beach;

- Rossetti—Selections in text;
 Swinburne—Selections in text;
 Hardy—Selections in text;
 Watson—Selections in text;
 Carman—Selections in text;
 Yeats—Selections in text;
 Kipling—Selections in text;
 McCrae—Selections in text;
 Masfield—Selections in text;
 Noyes—Selections in text;
 Brooke—Selections in text;
 Arnold—Sohrab and Rustum (Houghton Mifflin Co.).

(b) English Prose—

- 1 Scott—Kenilworth (Nelson's Classics);
- 2 Dickens—Pickwick Papers (Everyman, Dent);
- 3 Hardy—Far from the Madding Crowd (Macmillan);
- 4 Galsworthy—The Man of Property (Heinemann).

History of English Literature. (For courses 1 and 2). Texts: Tutorial History of English Literature, by A. J. Wyatt (University Tutorial Press); A Biographical Dictionary of English Literature (Everyman, Dent).

References: English Literature, Its History, by W. J. Long (Ginn & Co.); A History of English Literature, by John Buchan (Nelson); Required lives in English Men of Letters Series (Macmillan).

Note—Intra-Mural students are advised to consult Cambridge History of English Literature and Dictionary of National Biography.

Professors Allison, Carver, Argue, Miss Saunders and Mr. McIntyre.

*Reference Books -
 Tutorial History of Eng. Lit. A. J. Wyatt
 (University Tutorial Press)*

3, 4. English Poetry and Prose. Second Year Arts, First and Second Terms. Four hours a week.

(1) First Term. (a) **English Poetry.**

Chaucer—The Prologue to the Canterbury Tales;

Spenser—The Faerie Queene, Book I, ed., Kitchin (Oxford);

Milton—On the Morning of Christ's Nativity; Lycidas; Paradise Lost, Book I.

Text: Greater English Poets, edited by Crawford, Perry, and Woodhouse (Macmillan).

Note: The course involves a knowledge of the life and times of the authors read, and an ability to render Chaucer into modern English prose.

References: English Literature, Its History, by W. J. Long (Ginn Co.), pp. 67-235; Spenser, Milton, in English Men of Letters Series (Macmillan); Chaucer, Spenser, Milton, in Dictionary of National Biography; A Biographical Dictionary of English Literature (Everyman, Dent).

(b) **English Prose.** Bacon—The Essays of Francis Bacon, edited by C. S. Northup (Houghton Mifflin Co.). The following essays: Numbers 1, 5, 10, 11, 13, 16, 17, 18, 23, 27, 29, 36, 42, 50;

Addison—Select Essays of Addison, edited by Samuel Thurber (Ally and Bacon, Boston). Selections, pages 1-80, 80-89, 104-122, 141-167, 171-180, 187-206, 213-220;

Johnson—Rasselas (Oxford);

Boswell—A Shorter Boswell, edited by Bailey (Nelson);

Lamb—Essays of Elia (King's Treasuries, Dent).

Reference: English Literature, Its History, by W. J. Long (Ginn & Co.).

(2) Second Term. (a) **English Poetry.** Shakespeare—The following plays: Romeo and Juliet; Richard III; Antony and Cleopatra. Texts: The New Hudson Shakespeare (Ginn & Co.); English Literature, Its History by W. J. Long (Ginn & Co.), Chapter VI, "The Age of Elizabeth."

References: An Introduction to Shakespeare, by MacCracken and others (Macmillan); Shakespeare, His Life and Work by Oliphant Smeaton (Everyman, Dent); "Shakespeare" in Dictionary of National Biography; Biographies of Shakespeare by Sidney Lee and Joseph Quincey Adams.

(b) **English Prose—**

Carlyle—Signs of the Times; Essay on Burns; Inaugural Address at Edinburgh (Everyman);

Macaulay—History of England, Chapter III (King's Treasuries, Dent);

Ruskin—The Open Sky; Mountain Glory; Greatness in Art; The Pathetic Fallacy; St. Mark's; Nature of Gothic; Roots of Honour (Modern Student's Library, Scribner's);

Arnold—Sweetness and Light; The Function of Criticism; Literature and Science (Houghton Mifflin Co.);

Huxley—On the Advisableness of Improving Natural Knowledge; A Liberal Education; On a Piece of Chalk (Henry Holt & Co.).

References: A Nineteenth Century Literature, by George Saintsbury (Macmillan); English Literature, Its History, by W. J. Long (Ginn & Co.).

Professors Perry, Carver, Argue, Miss Saunders and Mr. McIntyre.

5. Chaucer and English Mediaeval Literature. A detailed study of Chaucer, and assigned readings in texts of the mediaeval period.

(a) Chaucer—The Canterbury Tales: The Prologue; The Knightes Tale; The Nonne Preestes Tale; The Pardoners Tale; The Clerkes Tale. Texts: Selections from Chaucer, edited by E. A. Greenlaw (Scott, Foresman & Co.); The Clerkes Tale, edited by Kenneth Sisam (Oxford); The Poetry of Chaucer, by R. K. Root (Houghton Mifflin Co.).

(b) Mediaeval Literature—The Wakefield Second Shepherd's Play (Everyman, Dent); Langland's Piers Plowman (Everyman, Dent); French Mediaeval Romances, translated by Eugene Mason (Everyman, Dent); The Mabinogion, translated by Lady Charlotte Guest (Everyman, Dent); Froissart's Chronicles (Everyman, Dent).

References: A Chaucer Handbook, by R. D. French (Crofts & Co., N.Y.); Chaucer and His Poetry, by G. L. Kittredge (Harvard University Press); Some New Light on Chaucer, by J. M. Manly (Henry Holt & Co.); Introduction to Mediaeval Literature, by C. S. Baldwin (Longmans); English Literature from the Norman Conquest to Chaucer, by W. H. Schofield (Macmillan). Third Year Arts, First Term. Two hours a week. *Professor Perry.*

6. Shakespeare. The Merchant of Venice; Richard III; As You Like It; Hamlet; Othello; Antony and Cleopatra (New Hudson Shakespeare, Ginn & Co.). Introduction to Shakespeare, by MacCracken and others (Macmillan); A Life of Shakespeare, by Joseph Q. Adams (Houghton Mifflin Co.).

References: A Life of Shakespeare, by Sidney Lee (Macmillan); Hamlet, An Ideal Prince, and other Essays, by A. W. Crawford (The Copp Clark Co.); Elizabethan Literature, by Saintsbury (Macmillan); History of English Dramatic Literature, by A. W. Ward (Macmillan); Elizabethan Drama, by F. E. Schelling (Houghton Mifflin Co.). Third Year Arts, Second Term. Two hours a week. *Assistant Professor Argue.*

7. Milton. (a) Poetry: Comus; Sonnets; Paradise Lost, Books I, II, III, IV, IX; Samson Agonistes. (b) Prose: Of Education; Areopagitica; The Tenure of Kings and Magistrates. Text: Milton's Prose, selected and edited by Malcolm W. Wallace (World's Classics, Oxford).

References: The Tenure of Kings and Magistrates, edited by W. T. Allison (Henry Holt & Co.); Milton, by John Bailey (Home University Library); A Milton Handbook, by James H. Hanford (F. S. Crofts & Co.). Third Year Arts, First Term. Two hours a week. *Professor Allison.*

8. Restoration and Eighteenth Century Literature. (Dryden to Burns).

(a) **Poetry:**

Dryden—Annus Mirabilis; Absalom and Achitophel, Part I; Religio Laici; The Hind and the Panther, Part I. Text: Dryden, Select Poems. edited by Christie (Oxford);

Pope—Ode on Solitude; Essay on Criticism; Elegy on an Unfortunate Lady; Essay on Man; Epistle to Dr. Arbuthnot; To Augustus; Epilogue to the Satires, Dialogue II. Text: Pope, Selected Poems, edited by Bredvold (F. S. Crofts & Co.), or by Sherburn (Nelson);

Selections from Dryden, Swift, Pope, Thomson, Johnson, Collins, Gray, Goldsmith (The Traveller) in English Poems, Restoration and Eighteenth Century, edited by Bronson (University of Chicago Press);

Ballads. Text: English Songs and Ballads, edited by T. W. H. Crosland (World's Classics).

(b) **Prose.** Letters. Text: English Letters, edited by M. Duckin and H. Wragg (World's Classics);

Swift—Battle of the Books (Everyman, Dent);

Johnson—Lives of Dryden and Pope (World's Classics);

Boswell—Life of Johnson, edited by Chas. S. Osgood (Modern Student's Library, Scribner's);

Gibbon—Autobiography (World's Classics).

References: A History of Eighteenth Century Literature, by Goss (Macmillan); Dryden, Swift and Pope, in English Men of Letters Series (Macmillan); Dr. Johnson and His Circle, by Bailey (Home University Library); A History of English Romanticism in the Eighteenth Century by H. A. Beers (Henry Holt & Co.).

Third Year Arts, Second Term. Two hours a week. *Professor Allison.*

9. Romantic Poetry.

Wordsworth—Lines Written in Early Spring; Expostulation and Reply; The Tables Turned; The Old Cumberland Beggar; Nutting; Three Years She Grew in Sun and Shower; Matthew; The Prelude; Michael Resolution and Independence; The Green Linnet; Stepping Westward; To the Cuckoo; Ode to Duty; To a Skylark; Elegiac Stanzas; Character of the Happy Warrior; Ode: Intimations of Immortality; To a Skylark; Sonnet not the Sonnet;

Coleridge—Christabel; France: An Ode; Dejection: An Ode;

Byron—English Bards and Scotch Reviewers; From Childe Harold's Pilgrimage; The Isles of Greece; On This Day I Complete my Thirty-Sixth Year; Selected Lyrics;

Shelley—Hymn to Intellectual Beauty; Lines Written among the Euganean Hills; Stanzas; The Sensitive Plant; Epipsychidion; Adonais Selected Lyrics;

Keats—Sleep and Poetry; Isabella: or The Pot of Basil; Bards of Passion and of Mirth; Ode on Melancholy; Ode on a Grecian Urn; Ode to a Nightingale; Lamia; To Autumn; Sonnets; Letters.

Text: English Poetry and Prose of the Romantic Movement, edited by George B. Woods (Scott, Foresman & Co.).

References: Wm. Wordsworth, by G. M. Harper (Murray); The Early Life of Wordsworth, by E. Legouis (Dodd); S. T. Coleridge, by J. D. Campbell (Macmillan); Byron, by Ethel C. Mayne (Scribner's); Shelley, The Man and the Poet, by Clutton-Brock (Methuen); Keats, by Sidney Colvin (Macmillan). Fourth Year Arts, Pass and Honors, First Term. Two hours a week. *Professor Allison.*

10. Victorian Poetry.

Tennyson—Mariana; The Poet; A Dream of Fair Women; You Ask Me Why; Of Old Sat Freedom; Love Thou Thy Land; Locksley Hall; Songs from the Princess; In Memoriam; Ode on the Death of the Duke of Wellington; Maud; The Higher Pantheism; To Virgil; Frater Ave atque Vale;

Browning—The Lost Leader; The Laboratory; Love Among the Ruins; Saul; By the Fireside; Two in the Campagna; One Way of Love; Another Way of Love; The Last Ride Together; Porphyria's Lover; Childe Roland; Karshish; Fra Lippo Lippi; Abt Vogler; Rabbi Ben Ezra; Confessions; Apparent Failure;

Arnold—Sonnet; To a Friend; Shakespeare; Self-Dependence; The Future; Requiescat; The Scholar Gipsy; Stanzas from the Grand Charteuse; East London; West London; Growing Old; Immortality; The Last Word.

Text: Victorian Poetry, edited by C. E. Andrews and M. O. Percival (R. S. Adams, Columbus).

References: Lives of the above poets in English Men of Letters Series (Macmillan); The Literature of the Victorian Era, by Hugh Walker (Cambridge); Survey of English Literature, 1830-1880, by Oliver Elton (Edward Arnold & Co.); History of English Literature, by Legouis and Cazamian (Dent).

Fourth Year Arts, Pass and Honors, Second Term. Two hours a week. *Professor Allison.*

11. The English Novel. Development to the Middle of the Nineteenth Century. Hopkins & Hughes, Extracts from the English Novel before the Nineteenth Century (Ginn); Richardson's Pamela (Everyman); Fielding's, Joseph Andrews (Everyman); Goldsmith's Vicar of Wakefield (Nelson's Classics); Maria Edgeworth's Castle Rackrent (Everyman); Walpole's Castle of Otranto (Hopkins & Hughes); Mrs. Shelley's Frankenstein (Everyman); Scott's Heart of Midlothian (Nelson's Classics); Jane Austen's Pride and Prejudice (Nelson's Classics); Dickens's Oliver Twist (Nelson's Classics); Hawthorne's The Scarlet Letter (Everyman); Thackeray's Henry Esmond (Nelson's Classics); George Eliot's Middlemarch (Collins); Text: Development of the English Novel, by W. L. Cross (Macmillan).

References: The English Novel (To Scott), by Sir Walter Raleigh (Murray); The Advance of the English Novel, by Wm. Lyon Phelps (Macmillan); Motives in English Fiction (To Dickens), by Robt. N. Whiteford (Putnam's). Fourth Year Arts, Pass and Honors, First Term. Two hours a week. *Professor Perry.*

12. Victorian and Georgian Prose. Imaginative Prose from the middle of the Nineteenth Century to the present.

Landor's Imaginary Conversations (World's Classics); Borrow's Lavengro (Everyman); Stevenson's Virginibus Puerisque (Everyman); Pater's Marius the Epicurean; Meredith's Ordeal of Richard Ferval (Scribner's); Hardy's Return of the Native (Scribner's); Stevenson's Master of Ballantrae (Macmillan's Pocket Classics); Barrie's The Little Minister (Cassell's); Wm. De Morgan's Joseph Vance (Nelson's); Conrad's Lord Jim (Doubleday); Bennett's Old Wives' Tale (Nelson's); Galsworthy's The Man of Property (Heinemann).

References: Development of the English Novel, by W. L. Cross (Macmillan); The Modern English Novel, by Abel Chevalley (Macmillan); A Century of the English Novel by Cornelius Weygandt (Century Co.). Fourth Year Arts, Pass and Honors, Second Term. Two hours a week. *Professor Perry.*

(Note—As preparation for class study, students should read part of novels in Courses 11 and 12 during the preceding summer.)

13. Elementary Old English. Text: Bright's Anglo-Saxon Reader (Holt). Phonology, Grammar. Extracts I, II, III, V, XII, XIII, XVII, XVIII, XIX, XX, XXI, XXII, XXIII.

Reference: English Literature before Chaucer, by P. G. Thomas (Edward Arnold & Co., London). Fourth Year Arts, Honors, First Term. Two hours a week. *Professor Perry.*

14. Middle English. A Middle English Reader, edited by O. F. Emerson (Macmillan); Translations of Piers the Plowman, Pearl, and Sir Gawain and The Green Knight, in Romance, Vision, and Satire, edited by Jessie L. Weston (Houghton Mifflin Co.); Translation of The Owl and the Nightingale, in The Chief Middle English Poets, edited by Jessie L. Weston (Houghton Mifflin Co.).

References: Introduction to Mediaeval Literature, by C. S. Baldwin (Longmans); English Literature before Chaucer, by P. G. Thomas (Edward Arnold & Co.); Long Will, A Romance by Florence Converse (Everyman). Fourth Year Arts, Honors, Second Term. Two hours a week. *Professor Perry.*

15. Spenser and Non-Dramatic Literature of the Sixteenth and Seventeenth Centuries. (a) Poetry: Spenser's Faerie Queen, Book V; The Shepherd's Calendar, Eclogue X, October; Hymn of Heavenly Beauty; Hymn of Heavenly Love; selections from Wyatt to Waller, with special study of the following poets: Spenser, Marlowe, Shakespeare, Campion, Drayton, Jonson, Donne, Herbert, Herrick, Vaughan, Cowley, Waller, Marvell. Texts: The Oxford Spenser; English Poems, Elizabethan Age and Puritan Period, edited by Bronson. (University of Chicago Press).

(b) Prose: English Prose, Wycliffe to Clarendon, edited by Peacock (World's Classics), pp. 180-231; 237-254; 259-306; 310-324; 420-459; 465-471; 478-553; English Critical Essays, Sixteenth to Eighteenth Centuries, edited by Jones (World's Classics), pp. 1-115; More's Utopia, Book II, edited by Collins (Oxford); Lyly's Euphues (Arber's Reprints); Sidney's Defence of Poetry (Arber's Reprints); Ascham's The Schoolmaster, Book I (Arber's Reprints); Hooker's Laws of Ecclesiastical Polity, Book I, edited by Church (Oxford); Bacon's Advancement of Learning, Book II, and New Atlantis (World's Classics). Fourth and Fifth Years Arts, Honors, First Term. Two hours a week. (Not given in 1931-1932.) *Assistant Professor Carver.*

16. Nineteenth Century Thought. A study, under direction, of some of the main tendencies in English thought from 1789 to 1900. Texts: Burke's Reflections on the French Revolution (Everyman); Paine's Rights of Man (Everyman); Carlyle's Sartor Resartus, and Heroes and Hero-Worship (Everyman); Mill's Utilitarianism and Liberty (Everyman); Newman's Idea of a University (Everyman); Darwin's Origin of Species (Everyman); Arnold's Culture and Anarchy (Nelson).

The following additional texts, not appearing in suitable editions, are to be read in the University Library: Coleridge's prescribed essays from The Friend and Aids to Reflection; Macaulay's Essay of Southey's Colloquies on Society, three essays on Utilitarianism (Macaulay's Miscellaneous Writings); Ruskin's Unto This Last, the Nature of Gothic; Huxley's Evolution and Ethics; Herbert Spencer's Essays on Education. Fourth and Fifth Years Arts, Honors, Second Term. Two hours a week. (Not given in 1931-32.) *Assistant Professor Carver.*

17. Types of English Poetry. A consideration of such types as the ballad, the epic, the metrical romance, the lyric, with prescribed texts.

References: Introduction to Poetry, by Raymond M. Alden (Holt); An Introduction to Poetry, by Hubbell and Beatty (Macmillan); A Study of

Poetry, by Bliss Perry; A Short History of English Versification, by Kaluzadunstan (Macmillan); A Primer of English Verse, by Hiram Corson (Ginn). Fourth and Fifth Years Arts, Honors, First Term. Two hours a week. *Professor Allison.*

18. Drama. (a) Sophocles: Oedipus, translated by Gilbert Murray; Euripides: The Bacchae, translated by Gilbert Murray. (b) Everyman; Marlowe's Doctor Faustus; Jonson's The Alchemist; Dryden's All for Love; Congreve's The Way of the World; Sheridan's The School for Scandal; Wilde's Lady Windermere's Fan. Text: British Drama, edited by Lieder, Lovett and Root (Houghton Mifflin Co.). (c) Contemporary Drama: Ibsen, Shaw, Galsworthy, Barrie, Masfield, The Irish School, as prescribed.

References: History of English Dramatic Literature, by A. W. Ward (Macmillan); Elizabethan Drama, by F. E. Schelling (Houghton Mifflin Co.); Aspects of Modern Drama, by F. W. Chandler (Macmillan); The Modern Drama, by L. Lewisohn (Viking Press). Fourth and Fifth Years Arts, Honors, Second Term. Two hours a week. *Assistant Professor Argue.*

19. Masterpieces of European Literature. A reading course of selections from works of conspicuous importance: Homer's Odyssey (translated by Butcher and Lang (Macmillan); Herodotus' History (Everyman); Thucydides' History (Everyman); Plato's Phaedrus (Everyman); Plutarch's Lives (Everyman); Virgil's Aeneid (Everyman); Juvenal's Satires; Grettir Saga (Everyman); Niebelungenlied (Everyman); Froissart Chronicles (Everyman); Dante's Divine Comedy (Everyman); Montaigne's Essays (Everyman); Cervantes' Don Quixote (World's Classics); Goethe's Faust, Part I (World's Classics). Fifth Year Arts, Honors, First Term. Two hours a week. *Professor Allison.*

20. American, English (Contemporary) and Canadian Poetry.

Texts: American Poetry, edited by P. H. Boynton (Scribner's); Twentieth Century Poetry, edited by Drinkwater, Canby and Benet (Houghton Mifflin Co.); The Oxford Book of Canadian Verse (Oxford Press.)

References: A Handbook of Canadian Literature, by V. B. Rhodenizer (Graphic Publishers); Headwaters of Canadian Literature, by Archibald MacMechan (McClelland & Stewart); Studies of Contemporary Poets, by Mary C. Sturgeon (Dodd); American Literature, by P. H. Boynton (Ginn). Fifth Year Arts, Honors, Second Term. Two hours a week. *Professor Allison.*

21. The History of Criticism in England, 1660-1798. Dryden's Essay of Dramatic Poesy, Parallel between Poetry and Painting; Addison's Account of the Greatest English Poets, Essays on Chevy Chase, Metaphor, Paradise Lost, (Spectator, Nos. 70, 74, 267, 273, 279, 285, 592, 595); Pope's Essay on Criticism, Song by a Person of Quality, The Art of Sinking in Poetry, Preface to Shakespeare; Johnson's Preface to Shakespeare, Lives of Cowley, Waller, Dryden, Pope, Thomson, Goldsmith, The Present State of Polite Learning in Europe; Morgann, Essay on the Dramatic Character of Sir John Falstaffe; also prescribed readings from Temple, Rymer, Davenant, Hurd, Young and Walpole; Aristotle's Poetics, translated by Butcher. Fifth Year Arts, Honors, First Term. Two Hours a week. *Assistant Professor Carver.*

22. The History of Criticism in England, 1798-1840. Wordsworth's Preface and Appendices to Lyrical Ballads; Coleridge's *Biographia Literaria*, Chapters XIV-XXII; Byron's English Bards and Scotch Reviewers, A Vision of Judgment, Don Juan (Dedicatory stanzas), Letters on the Campbell-Bowles controversy (Byron's Letters and Journals, edited by E. H. Coleridge, Vol. V, Appendix III); Hazlitt's Lectures on the English Poets, Essays on Wordsworth, Scott, Coleridge, Jeffrey, in the Spirit of the Age, On Paradox and Commonplace (Table Talk); Shelley's Defence of Poetry, Preface to The Revolt of Islam; De Quincey's Translation of Lessing's Laocoon, On the Knocking at the Gate in "Macbeth," The Poetry of Pope, On Wordsworth's Poetry; also selections from Jeffrey, Southey, Lamb, Keats, Bowles, Campbell, Carlyle and Macaulay as prescribed. Fifth Year Arts, Honors, Second Term. Two hours a week. *Assistant Professor Carver.*

Note—Intending students of courses 21 and 22 are advised to consult the instructor before the close of the session concerning their reading during the summer vacation.

23. Advanced Old English. (a) Beowulf, edited by F. Klaeber (Heath). (b) A knowledge of Old English Literature from the following: Translations from Old English Prose, by Cook and Tinker (Ginn & Co.); Old English Poems, by Faust and Thompson (Scott, Foresman & Co.); Old English Poetry, translated by Spaeth (Princeton University).

References: English Literature Before Chaucer, Part I, by P. G. Thomas (Edward Arnold & Co.); English Literature from the Beginning to the Norman Conquest, by Stopford A. Brooke (Macmillan); An Old English Grammar, by Sievers-Cook (Ginn & Co.); Beowulf and Epic traditions by W. W. Lawrence (Harvard University Press); Translations of Beowulf in The Oldest English Epic, by F. B. Gummere (Macmillan). Fifth Year Arts, Honors, First Term. Two hours a week. *Professor Perry.*

24. Historical English Grammar. (a) An elementary study of Gothic and Germanic Philology. Text: Grammar of the Gothic Language, by Joseph Wright (Oxford). (b) A survey of the growth of the English Language, including such topics as: the origin and nature of language; chief language types and families; the place of English in the Indo-European system; history of English inflections, syntax, vocabulary, and phonology; semantics and lexicography.

Texts: History of the English Language, by O. F. Emerson (Macmillan); Growth and Structure of the English Language, by Otto Jespersen (Stechert, New York).

References: Modern English. Its Growth and Present Use, by G. R. Krapp (Scribner's); Words and their Ways in English Speech, by Greenough and Kittredge (Macmillan); A Short History of English, by H. C. Wyld (Dutton). Fifth Year Arts, Honors, Second Term. Two hours a week. *Professor Perry.*

DEPARTMENT OF FRENCH

W. F. Osborne, M.A., Officier d'Académie.....	Professor
W. D. Evans, M.A.....	Assistant Professor
Céline A. Ballu, M.A.....	Lecturer
M. E. Richard, B.A.....	Lecturer
C. Meredith-Jones, M.A.....	Lecturer

French I—Courses 1, 2, 3, 4. (Prerequisite, Matriculation French).

French II—Courses 5, 6, 7, 8. (Prerequisite, French I).

French III—Courses 9, 10, 11, 12. (Prerequisite, French II).

French IV—Courses 13, 14, 15, 16. (Prerequisite, French III).

French IVH—Courses 13, 14, 15, 16, 17, 18, 19, 20. (Prerequisite, French III).

French V—Courses 19, 20, 21, 22, 23, 24, 25, 26, 27, 28. (Prerequisite, French IVH).

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Grammar and Composition.** Text: *Beginners' French Grammar*, Olmstead and Sirich, published by Henry Holt.

First Term—First thirty Lessons, together with proportionate part of a Review of the Complete Verb.

Second Term—Lessons XXXI-LV, together with completion of Verb Review.

3, 4. **Authors.** First Term—*Stories from Mérimée*, ed. by Buffum, pub. by Holt and Co. Second Term—Alphonse Daudet: *Lettres de mon Moulin*, ed. by Moore, pub. by Nelson and Sons; and Jules Romains: *Knock ou Le Triomphe de la Médecine*, ed. by Menut and Chapman, pub. by The Century Co.

5, 6. **Practice and Composition.** Text: *French Composition and Conversation*, Olmstead and Barton, published by Henry Holt. First Term: Lessons I-IX inclusive. Second Term: Lessons X-XXI inclusive. The student will use for reference *The New Fraser and Squair Complete French Grammar, Part II* (Copp, Clark Co.)

7, 8. **Authors.** First Term—Louis Hémon: *Maria Chapdelaine*, pub. by The MacMillan Co. of Canada. Second Term—*Quelques Contes des Romanciers Naturalistes*, ed. by Dow and Skinner and pub. by Heath and Co.; and Molière: *Le Misanthrope*, ed. by Eggert, and pub. by Heath and Co.

9, 10. **Explication de Textes et Composition.** Methods of analysis, oral and written, will be developed by the use of V. Bouillot, *Morceaux Choisis—Classe de 5 ième*, in both terms, and with this will be associated, for the first term *Le Misanthrope* of Molière, and for the second term *Le Jeu de l'Amour Et du Hasard* of Marivaux. Term marks will be given in this course.

11, 12. First Term: Corneille, *Horace*, ed. by Saintsbury, pub. by The Clarendon Press; Racine, *Phèdre*, ed. by Babbitt, pub. by Heath and Co.; Molière, *Le Misanthrope*, ed. by Markheim, pub. by Oxford University Press; Sainte-Beuve, *Trois Portraits Littéraires*, ed. by Savory, pub. by The Clarendon Press. Second Term: Marivaux, *Le Jeu de l'Amour Et du Hasard*, ed. by Fortier, pub. by Heath and Co.; Victor Hugo, *Ruy Blas*,

ed. by Hutton, pub. by The Clarendon Press; François Coppée, *Pour la Couronne*, ed. by Hawkins, pub. by Henry Holt; Henri de Bornier, *La Fille de Roland*, ed. by Nelson, pub. by Heath and Co.

13, 14. **Explication de Textes et Composition.** Text for method: V. Bouillot, *Morceaux Choisis—Classe de cinquième*, in both terms. Supplementary material, to be used at the discretion of the instructor, will be drawn in the first term from *Dominique* by Fromentin (Collection Nelson), and in the second term from texts prescribed in courses 15 and 16.

15, 16. **Nineteenth Century Literature.** First Term: Rousseau, *Discours sur l'origine et les fondements de l'inégalité parmi les hommes*, edited by Muller and Vaillant (Oxford); Bernardin de Saint-Pierre, *Paul et Virginie*, edited by Kuhns (Holt); Chateaubriand, *Atala*, edited by Kuhns (Heath); Mérimée, *Chronique de Charles IX*, edited by A. T. Baker (Clarendon Press); Hugo, *Préface de Cromwell*, *Hernani*, edited by Effinger (Scott, Foresman); Vigny, *Chatterton*, edited by Lauvrière (Clarendon Press); Henning, *French Lyrics of the Nineteenth Century* (Ginn). Second Term: Musset, *On ne badine pas avec l'Amour*, edited by Duchemin (Hachette); Balzac, *Eugénie Grandet*, edited by Jenkins (Holt); Stendhal, *Waterloo*, edited by Hartog (Rivington); Sainte-Beuve, *Selected Essays*, edited by Effinger (Ginn); Dow and Skinner, *Quelques contes des romanciers naturalistes* (Heath); Pailleron, *Le monde où l'on s'ennuie*, edited by Price (Ginn); Becque, *Les Corbeaux*, edited by Dawson (Heath); Rostand, *Cyrano de Bergerac*, edited by Kuhns (Holt); Henning, *French Lyrics of the Nineteenth Century* (Ginn).

17, 18. **Introduction to Old French.** Text: *Chanson de Roland*, edited by Jenkins (Heath).

19, 20. **French Prose Composition, English into French.** Text: *A Manual of French Composition*, edited by Ritchie and Moore, and published by the Cambridge University Press.

21, 22. **The Literature of the French Renaissance.** Calvin, *Pages Choiesies*, edited by Daniel Jordan (Heath). Selections from: Marot; Joachim du Bellay; Brantôme; D'Aubigné; in Darmesteter et Hatzfeldt, *Le seizième Siècle en France* (Delagrave). Du Bellay, *La Défense et Illustration de la Langue Française*, edited by Séché (Sansot). Ronsard, edition by P. Villey (Bibliothèque Française, Plon). Amyot, *Démosthènes et Cicéron* (Démosthènes only, to be studied) edited by J. Normand (Hachette). Brantôme, *Vies des Dames Illustres*, *Discours sur Anne de Bretagne* only, (Classiques Garnier). *Satyre Ménippée* (Classiques Garnier). Rabelais, edition by Huguet (*Pages Choiesies des Grands Ecrivains*, Armand Colin). Montaigne, edition by P. Villey (Bibliothèque Française, Plon).

23. **Non-Dramatic Literature of the Seventeenth Century.** Pascal, extracts from *Les Pensées* in *Selections from Pascal*, ed. by Warren and published by Heath; Bossuet, *Oraisons Funèbres de Henriette de France*, ed. of Henriette d'Angleterre, et du Grand Condé, in *Selections from Bossuet*, edited by Warren and published by Heath; *Selected Letters of Madame de Sévigné*, edited by A. T. Baker and published by Manchester University Press; *Madame de la Fayette, La Princesse de Clèves*, edited by H. Ashton and published by the Cambridge University Press; La Bruyère, the *Sections of Les Caractères* entitled *Du Mérite Personnel, des Femmes, et de la Cour*, in the Collection Nelson. Reference book to be in hands of student for this course: Lanson, *Histoire de la Littérature française*, Hachette et Cie, Paris.

24. Eighteenth Century Comedy. Jean François Regnard, *Le Joueur* and *Le Légataire Universel* in la Collection Nelson; Lesage, *Turcaret*, edition by Kerr, published by Heath; Marivaux, *Le Jeu de l'Amour et du Hasard*, in La Collection Nelson; Sedaine, *Le Philosophe sans le savoir*, ed. by Oliver and published by Oxford University Press; Beaumarchais, *Le Barbier de Séville*, edited by W. G. Hartog, published by Blackie and Son, and *Le Mariage de Figaro*, edited by E. F. Langley, published by Oxford University Press. Lanson, *Histoire de la Littérature française*, as in Course 23.

25, 26. Old French. L. Constans, *Chrestomathie de l'ancien français* (Stechert); *Le Mystère d'Adam*, edited by Paul Studer (Manchester University Press); Aucassin et Nicolette, edited by F. W. Bourdillon (Manchester University Press); Bérout, *Le Roman de Tristan*, edited by Ernest Muret in *Les Classiques français du Moyen Age* (Champion).

27, 28. Evolution historique de la France des origines à nos jours. Texts: Alfred Rambaud, *L'Histoire de la Civilisation française*, 2 vols., Librairie Armand Colin, Paris. This course is conducted in French, and will be open to M.A. and other approved students.

DEPARTMENT OF GEOLOGY AND MINERALOGY

Justin S. DeLury, B.A., Ph.D., F.R.S.C.....	<i>Professor</i>
S. Raeburn Kirk, B.Sc., Ph.D.....	<i>Assistant Professor</i>
George M. Brownell, M.Sc., Ph.D.....	<i>Assistant Professor</i>
S. P. Ogryzlo, B.Sc.....	<i>Demonstrator</i>
G. M. Furnival, B.Sc.....	<i>Demonstrator</i>
A. F. Banfield, B.Sc.....	<i>Demonstrator</i>
Enid M. Smedley.....	<i>Student Demonstrator</i>

Geology II—Courses 1, 2, 3, 4. (Prerequisite: Grade XII Chemistry or Chemistry I).

Geology III—Courses 7, 8, 11, 12. (Prerequisite: Geology II and Chemistry II).

Geology IV—Courses 19, 20, 21. (Prerequisite: Geology III).

Geology IVH—Courses 15, 16, 17, 18, 19, 20, 21. (Prerequisite: Geology III, Physics I).

Geology V—Courses 31, 32 and either 23, 24, 25, 26 or 27, 28, 29, 30. (Prerequisite: Geology IVH).

Third Year Civil Engineering—Courses 5, 6, 5a, 6a.

First Year Pharmacy—Course 10.

Students intending to enter courses in Geology in the Senior Honors Division in Science are advised to consult page 32 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

1, 2. General Geology. The materials of the earth. Geological agents and structures. Ore deposits. Fossils and their meaning. Origin

and age of the earth. Historical geology. Evolution of plant and animal life. Coleman and Parks' Elementary Geology. Two hours a week.

3, 4. Practical Demonstrations. On minerals, rocks and fossils. Study of topographical and geological charts and maps. One hour a week.

5, 6. Engineering Geology. Similar in scope to Course 1, 2, but with particular application to engineering problems. Ries and Watson: Elements of Engineering Geology. Two hours a week.

5a, 6a. Engineering Geology, Practical. Identification of common minerals and rocks from hand specimens. Brief study of fossils. Study of physiographic features from topographical maps and the interpretation of geological maps. Two hours a week.

7, 8. Practical Geology. Systematic examination of minerals by blowpipe and dry way tests. Geological maps and structure sections. Panorama of Physiographic Types: Lobeck. Three hours a week.

10. Elementary Mineralogy. Minerals, their properties, origin and associations. Two hours a week.

11. Crystallography. Laws of crystallography. Stereographic projection. Systems and classes. Optical properties. Identification of crystal forms. Dana: Text Book of Mineralogy. Four hours a week.

12. Mineralogy. Classification and systematic study of minerals. Genetic relationships. Study and identification of minerals. Dana: Text Book of Minerals. Four hours a week.

15, 16. Petrology. Optical properties of rock-forming minerals under polarising microscope. Classification of rocks. The characteristics of the various rock families. Magmatic differentiation. Physicochemical laws governing the formation of igneous, metamorphic, and sedimentary rocks. Tyrrell's "Principles of Petrology." Two hours a week.

17, 18. Practical Petrology. Identification of rock-forming minerals under the microscope. Study and identification of rocks in thin sections, and in hand specimens. Quantitative estimation of rocks. Five hours a week.

19. Palaeontology. The nature of fossils. Study of representative fossil invertebrates with emphasis on stratigraphical significance rather than on biological characters. Fossil vertebrates and plants in brief outline. Two hours a week.

20. Economic Geology. Non-metallic mineral deposits, mineral fuels, clays, etc. Classification and study of rocks associated with economic minerals. Bayley: Non-Metallic Mineral Deposits. Five hours a week.

21. Practical Palaeontology. Laboratory study of fossils. Three hours a week.

23, 24. Advanced Economic Geology. An exhaustive study of the genesis and mineralogy of ore deposits. The structural geology and petrography of the great mining districts of the world. Emmons' Principles of Economic Geology. Two hours a week.

25, 26. **Practical Advanced Economic Geology.** A study of map folios, ore suites and rock formations of some important ore deposits. Identification of opaque ore minerals under the reflecting microscope with a study of the paragenesis and structures of typical ores. Three hours a week.

27, 28. **Advanced Invertebrate Palaeontology.** Systematic study of fossil invertebrates; more comprehensive than in Course 19, involving greater taxonomic detail and phylogenetic considerations. (Zittel, Text-book of Palaeontology, Vol. I.). Lectures, two hours a week.

29, 30. **Practical Advanced Palaeontology.** Study of representative collections of North American fossils and use of the palaeontological literature of Canada and the United States in determination of species. Four hours a week.

31, 32. **Stratigraphy.** (a) *Principles*: including a study of processes, environments and products of sedimentation, structural characters and relations of sedimentary rocks, evidence obtained from fossils, classification and correlation of geological formations and palaeogeography. (b) *Stratigraphy of North America*: the physical and faunal history of the different geological periods. Two hours a week.

33, 34. **Practical Stratigraphy.** Problems on stratigraphical principles involving independent use of geological literature. Chronological interpretation of geological maps. Study of faunas and floras of the geological periods dealt with in the lecture course 31, 32.

35, 36. **Advanced Investigations and Research.** Students in the M.A. and M.Sc. courses, and the more advanced students in the fifth year of the Honors B.Sc. course will carry out, under direction, independent investigation on some field or laboratory problem. The laboratories are open all day for this purpose.

37, 38. **Geological Excursions.** During October, the earlier part of November, and the latter part of March, excursions will be conducted on Saturdays to places of geological interest in the neighborhood of Winnipeg. These excursions form an integral part of the class work.

Students who intend to take Geology as an honors subject should, if possible, spend their summers as student assistants under the Geological Survey of Canada.

43, 44. **Graduate Courses.** Special Lecture Courses for guidance in reading (one hour per week) are given Graduate Students on *Sedimentation* and *Metamorphism*, Problems in Igneous Geology and Advanced Historical Geology. These courses are alternated from year to year.

Additional Text-books Recommended

Text-book of Geology, Pirsson and Schuchert; Geology, Chamberlin and Salisbury; Handbook of Minerals, Butler; Crystallography, Williams; Determinative Mineralogy, Brush and Penfield; Palaeontology, Woods; Mineral Deposits, Lindgren; Economic Geology, Ries; Metamorphic Geology, Leith and Mead; Manual of Petrographic Methods, Johannsen; Determination of Rock Forming Minerals, Johannsen; Quantitative Classification of Igneous Rocks, Cross, Iddings, Pirsson and Washington; Introduction to the Study of Fossils, Shimer; Sedimentary Petrography, Milner; Principles of Stratigraphy, Grabau; Treatise on Sedimentation, Tewnshofel.

DEPARTMENT OF GERMAN

J. H. Heinzelmann, B.A., Ph.D.....	<i>Professor</i>
W. F. Mainland, M.A.....	<i>Assistant Professor</i>
Anna C. Jones, B.A.....	<i>Assistant</i>

German IA—Courses 1, 2.

German I—Courses 3, 4. (Prerequisite, Matriculation German or German IA).

German IIA—Courses 5, 6. (Prerequisite, German IA).

German II—Courses 7, 8; 9, 10. (Prerequisite, German I).

German III—Courses 9; 10; 11, 12. (Prerequisite, German II).

German IV—Courses 13, 14; 15, 16. (Prerequisite, German III).

1, 2. Elementary German. This course is offered for those entering the University without matriculation credit in German.

First Term: Vos, Essentials of German, Revised edition (Holt), Lessons 1-21.

Second Term: Essentials in German, completed. Zeydel, A Second German Reader (F. S. Crofts & Co., N.Y.), pp. 1-71.

3, 4. German Authors and Practice.

First Term: Purin and Rose, Deutsche Kulturkunde, Complete Edition (Johnson Pub. Co., Chicago), pp. 1-70 and 169-280. Heyse, L'Arrabbiata (Ginn). Lieder, German Poems and Songs (Oxford Press), Nos. 1-25. Nos. 1, 2, 3, 6, 8, 13, 18 are to be memorized. The work in written composition will be limited to the Kulturkunde and will consist partly of the free reproduction of the Lesestücke, partly of the translation of a number of the English exercises in the Uebungen.

Second Term: Deutsche Kulturkunde, pp. 71-152 and 281-325. Frommel, Mit Ränzel und Wanderstab (Copp Clark). German Poems and Songs, Nos. 25-50. Nos. 32, 33, 35, 37, 46 are to be memorized. The oral and written reproduction of the material in the Kulturkunde will be continued.

5, 6. German Prose Readings. This course is intended primarily for those in Second Year Arts intending to go forward to the course in Medicine.

First Term: Porterfield, Modern German Stories (Copp Clark), to p. 180.

Second Term: German Stories, Completed; Dippold, Scientific German Reader (Ginn), Selections.

7, 8. Advanced Authors and Practice.

First Term: Fleissner and Fleissner, Deutschland von Heute und Gestern (Crofts & Co., N.Y.), pp. 1-73. Diamond and Uhlendorff, Mitten im Leben (Holt); Wilhelmi, Einer muss heiraten and Benedix Eigensinn, bound together (Holt), the first comedy. The work in oral and written practice will be done in connection with the material read.

Second term: Deutschland von Heute und Gestern, completed. Benedix, Eigensinn. Sudermann, Frau Sorge (Holt). Practice as above.

9, 10. German Composition.

First Term: Pope, Writing and Speaking German, New Series (Holt), pp. 1-48. Original Composition.

Second term: Writing and Speaking Completed. Original Composition.

9. History of German Literature from the Reformation to 1770.

Lectures on the leading movements and authors with illustrative readings from Thomas, Anthology of German Literature (Copp Clark).

10. Lessing. A detailed study of his life and the readings of his more important works.

11. Heine's Prose and Poetry. A study of the author's life will accompany the reading of *Die Harzreise* (Holt) and *Poems* (Ginn).

12. The Romantic School. Lectures on the history of German Literature from 1795 to 1830 with collateral readings in the prose literature of the period.

13. Kleist and Grillparzer. A study of early realism in the German Drama.

14. The Recent German Drama. Lectures on the dramatic movements in Germany since 1850 with parallel readings and reports.

15. Goethe. His life and literary development together with the reading of *Werther* (Oxford); *Faust* (Copp Clark); *Iphigenie auf Tauris* (Holt).

16. The German Novel Since 1850. Lectures on recent currents in German fiction will accompany the reading of typical examples.

DEPARTMENT OF HISTORY

H. N. Fieldhouse, M.A.	Professor
Joseph E. Howe, M.A.	Assistant Professor
D. W. Hunter Marshall, M.A., LL.B., B.Litt.	Assistant Professor
R. O. MacFarlane, M.A.	Assistant Professor

History I—Courses 1, 2.

History II—Courses 3, 4.

History III—Courses 5a, 5b, 6. (Prerequisite, History II).

History IV—Courses 7, 8. (Prerequisite, History III).

History IVH—Courses 7, 8, 9, 10 and either 11a, 12a or 11b, 12b. (Prerequisite, History III).

History V—Courses 13, 14, 15, 16.

N.B.—For key to system of numbering courses, see page 4.

Students are advised that emphasis will be laid on the preparation of essays or other term work as prescribed by the tutor. A knowledge of the

necessary historical geography will be expected in all courses, so that students are advised to supply themselves with a historical atlas, such as that by W. R. Shepherd. Historical Atlas (Henry Holt, New York).

1. Mediaeval European History. A general outline of the political development of Europe between the fall of the Western Roman Empire and the Renaissance, with special attention to the period between the accession of the Emperor Otto I and the death of the Emperor Frederick II. Questions upon historical geography will form a compulsory part of the examination. The text book is D.C. Munro and R. J. Sontag's *The Middle Ages* (Century Co., New York). Subsidiary reading will be prescribed. Four hours per week. Assistant Professor Marshall.

2. Modern European History. The history of Europe from the Renaissance to the French Revolution. Text book: J. E. Gillespie, *A History of Europe, 1500-1815*, (Norton & Co., New York). Assistant Professor Howe.

3, 4. Europe Since 1789. Text book: Grant & Temperley, *Europe in the Nineteenth Century*, (Longmans). Three hours per week. Professor Fieldhouse.

5a. American History. This course will attempt to outline the rise and development of the American Nation.

The following are the more important topics: The making of the constitution, Jeffersonian and Jacksonian democracy, the struggle over state rights, slavery and the Civil War, Westward expansion, industrial expansion, the tariff and immigration, American Imperialism, relations with the British Empire.

The more important works to which students will be referred are: Channing, *History of the United States*. Macdonald, *Documentary Source Book of American History*. Turner, *The Frontier in American History*. Van Tyne, *Causes of the War of Independence*. Trevelyan, *The American Revolution*. Morison, *History of the United States*. Phillips, *American Negro Slavery*. Paxson, *Recent History of the United States*. Assistant Professor Howe.

5b. General Canadian History up to 1783. Emphasis will be laid on the following topics: Geography, the Indians, the French background, early discovery and exploration, the trading companies, royal government and settlement, Frontenac and western expansion, Hocquart the Intendant, Anglo-French rivalry, Quebec Act, American Revolution.

Students are advised to consult Burpee, *An Historical Atlas of Canada*, and Lucas, *Historical Geography of Canada*, Part I. General reading: Parkman, *The Old Regime and Frontenac and New France Under Louis XIV*, *Canada and Its Provinces*, *Makers of Canada*, *Chronicles of Canada*. Cambridge History of British Empire, vol. VI. Assistant Professor Howe.

6. General Canadian History Since 1783. The following topics will be emphasised: The coming of the Loyalists, relations with the United States, representative and responsible government, immigration and settlement, the era of the canals and the railways, Confederation, development of political parties, rise of the West, growth of the Dominion, Canada in the Commonwealth of Nations.

General reading and atlas as for Course 5b. The following monographs are important. Van Tyne, *The Loyalists in the American Revolution*.

Martin, *Empire and Commonwealth*. Keenleyside, *Canada and the United States*. Cowan, *British Immigration to British North America*. Lucas, *Durham's Report*. Morison, *British Supremacy and Canadian Self-Government*. Skelton *The Backwoodsman*. Skelton, *Life and Times of Sir A. T. Galt*. Trotter, *Canadian Confederation*. Pope, *Memoirs of Sir John A. Macdonald*. Skelton, *Life and Letters of Sir Wilfred Laurier*. Martin, *Lord Selkirk's Work in Canada*. Innis, *History of the Canadian Pacific Railway*. Kennedy, *Constitution of Canada*. Borden, *Canadian Constitutional Studies*. Assistant Professor MacFarlane.

7. For Session 1931-2 only. **Canadian Constitutional History.** A survey of constitutional development from 1763 to the present, with some reference to the institutions of New France.

The following are the more important topics: The French background of Canadian History, the institutions of New France, the establishment of British rule in Nova Scotia and Quebec, the Quebec Act, the Constitutional Act, the movement for reform, the rebellions of 1837-8 and Lord Durham's Report, responsible government in the Maritime Provinces and in Canada, confederation, the admission of Manitoba and the completion of the Dominion, the development of political parties, the evolution of Imperial and foreign relations, the completion of Dominion Status.

Students will be expected to be familiar with the documentary base of this period as presented in W. P. M. Kennedy, *Statutes, Treaties and Documents of the Canadian Constitution* and in Durham's Report. References to particular topics will be supplied as the course proceeds. The following are among the more important books: *Cambridge History of the British Empire*, vol. 6; W. P. Kennedy, *The Constitution of Canada*; Chester Martin, *Empire and Commonwealth*; Aileen Dunham, *Political Unrest in Upper Canada, 1815-36*; Chester New, *Lord Durham*; J. L. Morison, *British Supremacy and Canadian Self-Government*; R. G. Trotter, *Canadian Federation*; J. Pope, *Memoirs of Sir John A. Macdonald*; O. D. Skelton, *Life and Letters of Sir Wilfred Laurier*; Sir R. Borden, *Canadian Constitutional Studies*. Three lectures and one seminar per week. Assistant Professor MacFarlane.

7. From Session 1932-3 onwards. **British History, Mediaeval.** A survey of the political and constitutional development of Britain from the beginnings until 1485. The course will include the following topics: Pre-historic Britain, the Roman period, the settlement of the Anglo-Saxons, the spread of Christianity, the Danish invasions, the institutions of the later Anglo-Saxon period, the Norman Conquest, the administrative and judicial reforms of the Norman and early Angevin kings, Magna Carta, the differentiation of the Curia Regis, the evolution of Parliament, the relations of England with Scotland and France, and the late mediaeval struggle between bureaucracy and oligarchy.

Students will be expected to provide themselves with (1) W. E. Lunt's *History of England* (New York, Harper and Brothers), and (2) G. B. Adams' *Constitutional History of England* (London, Jonathan Cape), and they will be liable to be examined upon the contents of these as well as upon the class lectures.

Note—J. R. Green's *Short History of the English People* is not a suitable book for any of the purposes of this course.

A consideration of certain of the more important constitutional documents will form an integral part of the work of the course, and a question upon these documents will be compulsory upon all but extra-mural

students. For the present these documents will be studied in the multi-graphed collection prepared by Assistant Professor Marshall, obtainable from the University Book Department.

Students aiming at high standing in the degree examination will further be expected to show evidence of independent reading, and are recommended to make themselves familiar with some of the following works: T. Rice Holmes, *Ancient Britain*; C. O'Rahilly, *Ireland and Wales*; F. Haverfield, the *Romanization of Roman Britain*; R. G. Collingwood, *Roman Britain*; E. T. Leeds, *The Archaeology of the Anglo-Saxon Settlements*; Sir C. W. C. Oman, *England before the Conquest*; E. Lipson, *The Economic History of England*, vol. I; Sir Frederick Pollock, Bart., and F. W. Maitland, *History of English Law*; H. W. C. Davis, *England Under the Normans and Angevins*; W. S. MacKechnie, *Magna Carta*; D. Pasquet, *The Origins of the House of Commons*; A. F. Pollard, *The Evolution of Parliament*; T. F. Tout, *Some Conflicting Tendencies in English Administrative History in the Fourteenth Century*; Sir W. S. Holdsworth, *History of English Law*, vol. I, and the chapters on England in the *Cambridge Mediaeval History*. Two lectures and two periods for document study per week. Assistant Professor Marshall.

8. For Session 1931-2 only. **European History Since 1789.** The main emphasis in the course will be placed on the period after 1815. The period 1789-1815 will be studied only in such a manner as to provide an introduction to the later period. Students are therefore required to have read Rose, *The Revolutionary and Napoleonic Era*.

The following reading may be taken as indicative of the lines which the course will follow:

(1) The attempt at the international organization of peace 1815 to 1848; Webster, *Congress of Vienna*; Alison Philips, *Confederation of Europe*; Cambridge *History of British Foreign Policy*.

(2) Germany. Treitschke, *History of Germany* (introduction by W. H. Dawson); Grant Robertson, *Bismarck*; Bismarck, *Reflections and Reminiscences*; Ward, *Germany*; Sorel, *Histoire Diplomatique de la guerre franco-allemande*.

(3) Italy. Bolton King, *History of Italian Unity*; Trevelyan, *Manin and the Venetian Republic*, *Garibaldi and the Making of Italy*; Paleologue, *Cavour*.

(4) The Near East. Cambridge *History of British Foreign Policy*; Mariott, *Eastern Question*; Hall, *England and the Orleans Monarchy*.

(5) France. Lucas-Dubreton, *La Restauration et la Monarchie de juillet*; Lowes-Dickenson, *Revolution and Reaction in Modern France*; Simpson, *L. Napoleon and the Recovery of France*.

More specialized reading will be suggested as the course proceeds. Professor Fieldhouse.

8. From Session 1932-3 onwards. **British History, Modern.** The main emphasis in the course will be placed upon the following topics: The Tudor monarchy and conciliar government, the growth of Protestantism and its effect upon the relations of Church and State, the struggle for sovereignty between Crown and Parliament, the constitutional outcome of the Revolution and Hanoverian Succession, and the development of cabinet and parliamentary government.

Text-books recommended: (1) For general history, W. E. Lunt, *History of England*; (2) For constitutional history, G. B. Adams, *Constitutional History of England*.

Students are strongly advised to base their course upon the following reading: Stubbs, *Lectures Upon Modern and Medieval History*; Pollard, *Henry VIII*; Prothero, *Statutes and Constitutional Documents, 1559-1625*; Feiling, *History of the Tory Party*; Gooch, *Growth of Democratic Ideas in the Seventeenth Century*; Gardiner, *Cromwell's Place in History*; G. M. Trevelyan, *England Under the Stuarts*; Airy, *Charles II*; Morgan, *Political Leaders and Parties Under Anne*; Grant Robertson, *England Under the Hanoverians*; Mervyn Davies, *George III and the Constitution*. Professor Fieldhouse.

9, 10. British Imperial History. This Course will deal with the rise and fall of the first British Empire, with the Second Empire and the Commonwealth of Nations. Special attention will be paid to the following topics: emigration and settlement, colonial government, the old colonial system, colonial, political and social ideas, the influence of the frontier, the American Revolution, the founding of the second British Empire, the end of the old Colonial system, British policy in India, the evolution of the self-governing dominions, tropical colonization, later 19th century imperialism, the Commonwealth of Nations.

Jernegan, *The American Colonies*, and Williamson, *Expansion of the British Empire* will serve as a narrative outline for this course. In addition to references given from time to time, reading will be based on the following: Macdonald, *Select Charters 1606-1775*; Wertenbacker, *The First Americans*; Dickerson, *American Colonial Government*; Beer, *Origins of the British Colonial System*, and *The Old Colonial System*; Parrington, *Main Currents of American Thought*, vol. I; Turner, *Frontier in American History*; Van Tyne, *Causes of the War of Independence*; Brady, *Huskisson and Liberal Reform*; Bell and Morrell, *Select Documents on British Colonial Policy*; Lyall, *Rise and Expansion of British Dominion in India*; Wakefield, *Art of Colonization*; Reeves, *Long White Cloud*; Bodelsen, *Studies in Mid-Victorian Imperialism*; Knapland, *Gladstone and Britain's Imperial Policy*; Cromer, *Modern Egypt*; Hall, *Empire to Commonwealth*; Two hours per week throughout the Session. Assistant Professor MacFarlane.

11a, 12a. Topics in Mediaeval History. The purpose of this course is to illustrate the social, economic, cultural, and legal background of mediaeval life with special reference to the 12th and 13th centuries. Emphasis will be placed upon the following topics: Feudalism, town life, the organization of the church and of typical secular governments, monasticism, the political philosophy of the Empire-Papacy controversy, canon, Roman and customary law, the 12th century Renaissance in culture, and the rise of Universities. Instruction will be given mainly through the medium of tutorial essays; in addition students will examine certain of the original authorities in translation. An outline knowledge of the political facts of the relevant periods of mediaeval history will be assumed, and students who have not taken History I are required to read some general text book on the period during the preceding summer vacation. Special reading for the course will be announced at the beginning of the Session. Two hours per week throughout the Session. Assistant Professor Marshall.

11b, 12b. The History of English Political Literature. A survey of English political thought with the object of complementing the accompanying course in British History and of showing the influence of political thought upon constitutional development from the Middle Ages to the present.

The volumes on political thought in the Home University Library Series by Gooch, Laski, Davidson, and Barker, will serve as an outline, and Gettell's, *History of Political Thought* (Century Co.), will be referred to particularly for bibliography. Two hours per week throughout the Session.

13, 14. **The French Revolution.** A general approach may be made through the following: Acton, *Lectures on the French Revolution*; Aulard, *Christianity and the French Revolution*; Aulard, *La Révolution et le Régime Féodal*; Madelin, *The French Revolution*; Madelin, *Danton*; de Tocqueville *The Ancien Regime and the French Revolution*; Willert, *Mirabeau*.

Texts: Morse Stephens, *Orators of the French Revolution*; Moleville, *Mémoires particuliers*, Wickham Legg, *Select Documents of the French Revolution*, *Correspondance entre le Comte de Mirabeau et le Comte de la Marck*.

Special reading will be recommended as the course proceeds. *Professor Fieldhouse*.

15, 16. **The Social and Economic Basis of Canadian History.** This course aims at correlating the political and constitutional aspects of Canadian History with the underlying social and economic factors. Students will be expected to buy Burpee, *An Historical Atlas of Canada*, and Trotter, *Canadian History, A Syllabus and Guide to Reading*. The chief general works relating to this course are: *Canada and Its Provinces*, *The Chronicles of Canada*, *The Makers of Canada*, Kingsford, *History of Canada*; Sulte, *Histoire des Canadiens-Français*. The following are some of the more important monographs: H. Innis, *The Fur Trade in Canada*; W. Munro, *The Seigniorial System in Canada*; Salone, *La Colonisation de la Nouvelle France*; C. Colby, *Canadian Types of the Old Regime*; Sir C. Lucas, *History of Canada, 1763-1812*; S. Johnson, *History of Emigration from the British Isles to North America*; Lucas, *Durham's Report*; Skelton, *Life and Times of Sir A. G. Galt*; Allin and Jones, *Annexation, Preferential Trade and Reciprocity*; Martin, *Lord Selkirk's Work in Canada*; Innis, *The History of the Canadian Pacific Railway*; G. Bradley, *Canada in the 20th Century*; Skelton, *The Backwoodswoman*; Caron, *La Colonisation de Quebec*.

Students will also be expected to be familiar with the periodical literature, especially the *Canadian Historical Review*. *Assistant Professor MacFarlane*.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

Norman R. Wilson, M.A., Ph.D., F.R.S.C.....	Professor
Lloyd A. H. Warren, M.A., Ph.D., F.R.A.S., A.A.I.A., A.A.S., F.C.A.S.....	Professor
William Tier, M.A.....	Professor
T. H. Milne, M.A.....	Assistant Professor
J. William Lawson, M.A.....	Lecturer
Meryl K. Marshall, B.A.....	Fellow

Mathematics I—Courses 1, 3 (one paper); 2, 4 (one paper). (Prerequisite, Matriculation Mathematics).

Mathematics IA—Courses 5, 6. (May be taken with Drawing I).

Mathematics II—Courses 13, 14; 15, 16. (Prerequisite, Mathematics I).

Mathematics IIA—Courses 5, 6.

Mathematics III—Courses 9, 10; 29, 30. (Prerequisite, for 29, 30, Mathematics II).

Mathematics III A—Courses 73, 74 (to be elected with English IIIA or a two-unit subject of the Junior Division).

Mathematics III S—Courses 29, 30; 55, 56 or 25, 26. (Prerequisite, Mathematics II).

Mathematics IV—A selection of four courses from the following: 25, 37, 39, 40, 43, 44, 46, 48, and, for students proceeding to the B.Sc. degree, 55 and 56.

Mathematics IV H and V, and Applied Mathematics IV H and V—A selection will be made by the Department from courses available.

Pharmacy I—(Degree Course)—Courses 1, 2, 3, 4.

Architecture I—Courses 1, 2, 3, 4, 5, 6.

Architecture II—Courses 19, 52.

Engineering I—Courses 17, 18; 19, 20; 52, 93.

Engineering II—Courses 21, 22; 89.

Civil Engineering III—Courses 54, 96.

Electrical Engineering III—Courses 54, 96.

Electrical Engineering III—Course 23.

Astronomy II—Courses 91, 92.

Astronomy III—Courses 89, 93, 54, 96.

Students intending to enter courses in Mathematics in the Senior Honors Division in Science are advised to consult page 37 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

N.B.—For key to system of numbering courses, see page 4.

PURE MATHEMATICS

*1, 2. **Algebra**. Text: An Intermediate Algebra by Wilson and Warren, (Oxford University Press). Two hours per week.

3, 4. **Analytic Geometry**. Text: Analytic Geometry by Crawley and Evans (University of Pennsylvania, Philadelphia).

First Term—Chapters I, II, III (omitting secs. 26, 29, 32, 37, 38). Two hours per week.

Second Term—Chapters IV, V (omitting secs. 60 and 61). Two hours per week.

5, 6. **Plane Trigonometry**. Text: Practical Trigonometry by Playne and Fawdry (The Copp, Clark Company).

First Term—Chapters I to V, inclusive. Two hours per week.

Second Term—Chapters VI to IX, inclusive. Two hours per week.

Students are required to become familiar with the use of tables in the solution of problems, and Logarithmic and Trigonometric Tables by Wentworth and Hill (Ginn & Company) are recommended.

*Students preparing for Engineering or the special courses in Mathematics are advised to procure the complete edition of this text book.

7. Synthetic Solid Geometry. Hall and Stevens' "A School Geometry," Part VI (Macmillan Co.). Theorems 81, 83, 84, 91, 92, 94, 97, 98 and pages 383-442; or the corresponding work in Betz and Webb's Solid Geometry (Ginn & Co.). Two hours per week.

9, 10. Algebra. A continuation of courses 1, 2. Intermediate Algebra (Wilson and Warren), Chaps XI, XVI, XVII, XVIII (First Term); Chaps XII, XIII, XIV, XXI, (Second Term).

13, 14. Analytic Geometry. Text: Analytic Geometry by Crawley and Evans (University of Pennsylvania, Philadelphia).

First Term—Chapter V, secs. 60 and 61, Chapters VI and VII. Two hours per week.

Second Term—Chapters VIII, IX, X, and XII. Two hours per week.

15, 16. Calculus. Text: Calculus for Beginners, by W. M. Baker (G. Bell and Sons, London.)

First Term—To page 54. Two hours per week.

Second Term—Pages 55 to 105, inclusive. Two hours per week.

17, 18. Algebra. Elementary determinants and their application to the solution of linear equations; partial fractions; continued fractions; hyperbolic functions, graphs of algebraic, trigonometric, inverse, exponential, logarithmic and hyperbolic functions; limiting values and vanishing fractions. Intermediate Algebra, Wilson and Warren. Two hours per week.

19. Analytical Geometry. Selections from Crawley and Evans's Analytical Geometry, page 107 to the end. Three hours per week.

20, 21, 22. Calculus. An elementary course with practical applications. Differentiation, measurement of rates, motion in curved paths, maxima and minima, partial derivatives, tangents and normals, curvature, evolutes, expansions, formation of differential equations, integration, areas and lengths of curves, volumes and surfaces. A course designed for Engineering students. Two hours per week, second term of First Year, and three hours per week throughout the Second Year.

23. Differential Equations. A short course specially adapted to meet the needs of students in Engineering and which will include special topics in Engineering mathematics. Murray, Differential Equations. Two hours per week.

25, 26. Algebra—Determinants and Theory of Equations. A continuation of course 17, 18. Intermediate Algebra, Wilson and Warren; Dickson, Theory of Equations. Two hours per week.

29, 30. Differential and Integral Calculus. A continuation of course 15, 16. Integration, partial derivatives, tangents and normals to curves and surfaces, curvature, evolutes, expansions, formation of differential equations, n th derivatives, Leibnitz's theorem, indeterminate forms, maxima and minima, reduction formulae, double and triple integration. Granville, Calculus, (Ginn). Two hours per week.

37. Advanced Calculus. A continuation of course 29, 30. (a) Differential Calculus. Expansions; maxima and minima; various equations of a curve; derived curves; envelopes; asymptotes; singular points. (b)

Integral Calculus. Volumes by triple integration; definite integrals; beta and gamma functions; pedals and roulettes. Two hours per week, in alternate years.

39, 40. Differential Equations. Methods used in elementary practical applications to physical and engineering problems, symbolic methods, geometrical applications and elementary general theory. Piaggio, Differential Equations (Bell). Two hours per week. (*This course will be given in alternate years, alternating with 25, 37*).

43-4. Solid Geometry. The elementary geometrical relations in space of three dimensions of the straight line and plane from both the synthetic and analytic standpoint, and surfaces of the second degree. *Texts:* Hall and Stevens, Geometry, Part VI, and Snider and Sisam, Analytic Geometry of Space. Two hours per week.

(*This course will be given in alternate years, alternating with courses 37 and 46*).

46. Projective Geometry. A course in modern projective geometry. Text book, Smart, Projective Geometry. Two hours per week. (*Alternating with course 44*).

48. Vector Analysis. The elements of vector analysis, with applications to geometry and mechanics. Vector Analysis, Coffin, (McGraw, Hill Book Co.) Two hours per week. (*Alternating with Course 40*).

APPLIED MATHEMATICS

52. Solid Geometry and Mensuration. Fundamental theorems of solid geometry. The mensuration of plane and solid figures. Superficial area, and volume of the pyramid, cone, cylinder, sphere, wedge, frustums, segments, zones, sectors; the prismoidal formula; applications to problems in connection with the earth; lengths of open and crossed belts; Betz and Webb's Solid Geometry. Two hours per week.

54. The Theory of Errors and Method of Least Squares. The general principles of probability, the law of error, direct measurements of equal and different weights, mean square and probable errors, indirect measurements; conditioned observations; applications to empirical constants and formulae. One hour per week.

55, 56. Analytic Mechanics. Chapters 6-8, 11, 13, 15, 16, from An Introduction to Mechanics by J. W. Campbell (Houghton-Mifflin) with additional lectures on statics of a particle, work and energy, and attraction.

57, 58. Analytic Mechanics. Chapters 1-5, 9, 10, 12, 14, 17 from the same text as in 55-56, with additional lectures on central forces.

(Courses 55-56 and 57-58 will be given in alternate years.)

61, 62. Celestial Mechanics. Central orbits, derivation of Newton's law; determination of the orbit from the law of force; potential and attraction of bodies; the problem of two bodies; the problem of n bodies; the problem of three bodies; Lagrangian straight line and equilateral triangular solutions of the three body problem, surfaces of zero relative velocity, etc.; geometrical and analytical consideration of perturbations. Moulton, Introduction to Celestial Mechanics, (Macmillan Co., New York).

ACTUARIAL SCIENCE

71, 72. Business Mathematics. Arithmetical progression; geometrical progression; theory and use of logarithms; interest and discount; equation of payments; annuities; sinking funds; amortization of debts; amortization schedules; capitalized cost; valuation of bonds; depreciation exchange.

73, 74. The Mathematical Theory of Investment. Interest and discount; equation of payments; annuities certain; amortization of debts; amortization schedules; valuation of bonds; depreciation; building and loan associations; elementary theory of probability; life annuities; net premiums for simple forms of insurance policies; reserves; valuation. *Mathematics of Finance*, L. L. Smail (McGraw-Hill Book Co.). *Tables of Applied Mathematics* by J. W. Glover, Parts I and IV (bound together), G. Wahr, Ann Arbor. References; *Mathematics of Finance*, Reitz, Crathorne and Reitz (Henry Holt & Co.); *Institute of Actuaries Text Book*, Part I. Two hours per week.

75, 76. Statistics. General statistical methods; frequency distributions; various types of averages; measures of variation and skewness, probable error; time series; measurement of trend; measurement of relationship; linear and non-linear co-relation; curve fitting; normal curve of error. First course in Statistical Method, G. I. Gavett, (McGraw-Hill Book Co.). A First Course in Statistics, D. C. Jones. References: *Statistical Methods*, F. C. Mills (Henry Holt & Co.); *Introduction to Statistics*, G. U. Yule. Two hours per week.

77. Theory of Probability. The general theory of probability; inverse probability; the mortality table; probabilities of life; expectations of life; survivorship probabilities; formulae for the law of mortality. Hall and Knight's *Higher Algebra*; *Actuarial Mathematics*, H. Freeman; *Life Contingencies*, by E. F. Spurgeon (C. & E. Layton). Reference: *Introduction to Mathematical Probability*, J. L. Coolidge. Two hours per week.

78. Finite Differences. A course of lectures on the Calculus of Finite Differences and the theory of operators. Fundamental difference forms; factorial expansions; symbols of operation; Herschel's and MacLaurin's Theorems; interpolation formulae; central difference formulae; approximations, mechanical quadratures, finite integration, Euler-MacLaurin sum series, Lubbock's, Woolhouse's and Hardy's formulae, convergence, difference equations. *Actuarial Mathematics*, H. Freeman (Cambridge University Press). Reference: Burn and Brown, *The Elements of Finite Differences*. Two hours per week.

79, 80. Principles of Life Insurance. Applications of the Calculus and Finite Differences to life contingencies. Mortality tables; single-life probabilities of life and death; single-life annuities and assurances; statistical applications of the mortality table; functions involving two or more lives; compound and survivorship probabilities; contingent probabilities; joint life and last survivor annuities and assurances; contingent assurances; reversionary annuities; construction of tables; tables involving two or more causes of decrement and functions dependent thereon; disability notation; accident and disability benefits; general nature of life insurance and annuity contracts; life insurance history; group insurance; industrial life insurance; fraternal insurance. Life contingencies. E. F. Spurgeon (C. & E. Layton); *Disability Benefits*, Arthur Hunter (Actuarial Society of America). References: *Life Insurance*, J. B. MacLean (McGraw-Hill Book Co.); *Advanced Life Insurance*, C. K. Knight (J. Wiley & Sons). Four hours per week.

86. The Theory of Errors and Method of Least Squares. See Applied Mathematics, Course 54.

ASTRONOMY

89. Spherical Trigonometry. Derivation of formulae, solution of the spherical triangle, areas of spherical triangles and polygons, applications to practical problems in geodesy and astronomy. Moritz's Spherical Trigonometry (Wiley & Sons). Two hours per week.

91, 92. General Astronomy: A study of the skies; evening observations; methods of locating celestial objects; the shape and motions of the earth; the sun and eclipses; the moon; the planets; comets and meteors; the sidereal universe; nebulae; modern conceptions of the Universe; recent astronomical discoveries. Text book, *An Introduction to Astronomy* by F. R. Moulton (new edition). Star Guide for Beginners, H. R. Kingston. Phillips' Planisphere. Two hours per week.

93. Descriptive and General Astronomy. A short course specially devoted to those parts of astronomy necessary in surveying. The shape and motions of the earth; the constellations; systems of co-ordinates; refraction; aberration; parallax, eclipses; time, equation of time, conversion of time. Moulton, *Introduction to Astronomy*. Two hours per week. Evening observations.

96. Mathematical and Practical Astronomy. The solution of the astronomical triangle; time; conversion of time; the ephemeris; determination for any date of the apparent places of stars from the star catalogues; corrections for refraction, parallax, diurnal aberration and dip, to be applied to observed co-ordinates; description and working principles of the sextant, transit theodolite, observatory transit, and zenith telescope; the errors of these instruments and methods of dealing with them; methods of determining latitude, time, longitude and azimuth; practical observations and their reduction. Two hours per week.

97, 98. Celestial Mechanics. See Applied Mathematics, course 61, 62.

FIFTH YEAR, AND GRADUATE COURSES

The following courses in graduate study will be offered from time to time. A selection will be made at the beginning of each session to meet the needs and qualifications of students desiring such work.

- 101—Algebraic Invariants.
- 102—Theory of Functions of a Real Variable.
- 103—Calculus of Variations (Elementary Course).
- 104—Elliptic Integrals and Fourier Series.
- 105—Theory of Functions of a Complex Variable.
- 106—Applied Analysis.
- 107—Vector Analysis.
- 108–109—Celestial Mechanics, I and II.
- 110–113—Actuarial Science, I, II, III and IV.
- 114—Casualty Actuarial Theory.
- 115—Mathematical Theory of Statistics.
- 116—Theory of Numbers.
- 119—Algebraic Numbers.
- 120—Modern Higher Algebra.

DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

Henry W. Wright, B.A., Ph.D. *Professor*
 Rupert C. Lodge, M.A. *Professor*

Philosophy II—Course 1, 2. Also course 3a, 4a, or 3b, 4b, which are not offered in the University but may be offered in the affiliated college.

Philosophy III—Course 7, 8, combined with either 5, 6, or 9, 10. (N.B. Course 1, 2 is a prerequisite for course 7, 8.)

Philosophy IV—Either 11, 12, or 13, 14, 15, 16.

Philosophy IV H—Courses 11, 12, 17, 18, 21, 22.

Philosophy V—Courses 19, 20, 21, 22, 23, 24.

Other combinations may be permitted by the examiners in Philosophy.

N.B.—For key to system of numbering courses, see page 4.

1, 2. Introductory Psychology (prerequisite for Courses 7-10). Woodworth's Psychology (new edition). First Term: to p. 242. Second Term: remaining chapters. Two hours a week. *Professor Wright.*

3a, 4a. Ethics. Wright's Self-Realization. First Term: Part I and Part II to end of Chap. V. Second Term: From Part II, Chap. VI to end of book. Two hours a week.

3b, 4b. Logic. Lodge's Introduction to Modern Logic, or Sellars' Essentials of Logic. First Term: Parts I and II to the end of chapter XV. Second Term: Chapter XVI to the end of Part III. Two hours a week.

5, 6. History of Philosophy (Ancient). First Term: Bakewell, Sourcebook in Ancient Philosophy, pages 1 to 179; Plato, Republic, Books I-II. Second Term: Rogers, Student's History of Philosophy, pages 1 to 101. Second Term: Plato, Republic, Books V-VII and X (omitting VIII-IX); Aristotle, Ethics (omitting Books VIII-IX); Bakewell, Sourcebook, pages 217 to 393; Rogers, Student's History, pages 101 to 184. Two hours a week. *Professor Lodge.*

7, 8. Social Psychology. First Term: M. Ginsberg's Psychology of Society. Second Term: Wright's Moral Standards of Democracy. Two hours a week. *Professor Wright.*

9, 10. Psychology, Practical and Applied. (Not open to Extra-Mural Students). Perrin and Klein, Psychology. Two hours a week. *Professor Wright.*

11, 12. History of Philosophy. (Medieval and Modern, down to the end of Kant). Selections from St. Augustine, St. Thomas Aquinas, and Abelard (as contained in Rand's Classical Moralists); Rand, Modern Classical Philosophers; Rogers, Student's History of Philosophy. First Term: to end of Leibnitz. Second Term: Locke to Kant, inclusive. Four hours a week. *Professor Lodge.*

13, 14. Moral and Religious Values. First Term: Hobhouse's The Rational Good. Second Term: Wright's Faith Justified by Progress, and The Religious Response. Two hours a week. *Professor Wright.*

15, 16. Problems of Philosophy. Patrick, Introduction to Philosophy. First Term: to p. 208. Second Term: Remaining Chapters. Two hours a week. *Professor Wright.*

17, 18. **Philosophical Pro-Seminar.** Weekly essays written by each student and read and discussed in class. Open only to honor students. Two hours a week. *Professor Lodge.*

19, 20. **History of Modern Philosophy.** Post-Kantian philosophy down to the present time. *Professor Lodge.*

21, 22. **Metaphysical Theory or Ethical Theory.** (Alternate years). Open only to Honor students. *Professor Wright.*

23, 24. **Philosophical Pro-Seminar.** Continuation of 17, 18. *Professor Lodge.*

Other undergraduate courses, instruction in which is not provided at the University, but which may be studied for the B.A. Degree:

25, 26. **History of Ethics.** Rand, Classical Moralists; Sidgwick, Outline of History of Ethics. First Term: to end of Wollaston. Second Term: Butler to end. Four hours a week.

27, 28. **Systematic Ethics.** First Term: Dewey and Tufts, Ethics. Second Term: Rashdall, Theory of Good and Evil. Four hours a week.

29, 30. **Philosophy of Plato.** First Term: Euthyphro, Apology, Crito, Phaedo, Protagoras, Gorgias, Euthydemus, Alcibiades I & II, Hippias Major and Minor, Charmides, Laches, Lysis, Menexenus, Symposium (Banquet), Phaedrus, Ion, in the translation and with the Introductions of Jowett, and with the relevant portions of Taylor's Plato. Second Term: All the remaining Dialogues, in the translation and with the Introductions of Jowett, and with the relevant portions of Taylor's Plato. Four hours a week.

31, 32. **Philosophy of Locke.** First Term: Books I-II of the Essay, in Fraser's edition, including the Introduction and Notes, and with the relevant portions of J. Gibson's Locke's Theory of Knowledge. Second Term: The Conduct of the Understanding, and Books III-IV of the Essay, with Fraser's Notes, and with the relevant portions of Gibson's Locke's Theory of Knowledge. Four hours a week.

33, 34. **Philosophy of Religion.** Galloway, Philosophy of Religion. Two hours a week.

35, 36. **Philosophy of Berkeley and Hume.** First Term: Berkeley, Principles of Human Knowledge, and Three Dialogues between Hylas and Philonous (Fraser's Edition), and A. C. Fraser, Berkeley. Second Term: Hume, Enquiry Concerning the Human Understanding (edited by Green and Grose). Four hours a week.

37, 38. **Philosophy of Kant.** First Term: Watson's Selections from Kant, to the end of the Critique of Pure Reason, together with the relevant portions of Watson's Kant's Philosophy Explained. Second Term: The whole remaining portion of Watson's Selections, and Kant's Philosophy Explained. Four hours a week.

GRADUATE COURSES

Students intending to take graduate work in Philosophy should in all cases consult the Examiners in Philosophy, in order to ascertain what type of problem they are fitted to investigate.

Note—Course 9-10 involves laboratory practice and hence cannot be taken extra-murally.

DEPARTMENT OF PHYSICS

Frank Allen, M.A., Ph.D., LL.D., F.R.S.C.	Professor
R. K. McClung, M.A., D.Sc., F.R.S.C.	Associate Professor
J. F. T. Young, M.A., Ph.D.	Assistant Professor
W. A. Anderson, M.A., M.Sc.	Lecturer
P. A. Macdonald, M.Sc., Ph. D.	Radium Physicist
Eugene Elkin, B.Sc.	Demonstrator
Sigfus Gillis, B.A.	Demonstrator
M. B. Newton, B.Sc.	Demonstrator
D. L. Downie, B.Sc.	Demonstrator
Gertrude Bradley	Student Assistant
O. Johnson	Student Assistant
J. W. Lockhart	Student Assistant
C. C. Neufeld	Student Assistant

Physics IA—Courses 1a, 2a; 3a, 4a.

Physics I—Courses 1, 2; 3, 4. (Prerequisite, Grade XI Physics).

Physics II—Courses 7, 8; 15, 16. (Prerequisite, Grade XII Physics or Physics I or Physics IA).

Physics IIM—Courses 5, 6. (Prerequisite, Grade XII Physics or Physics I or Physics IA).

Physics III—Courses 9, 10; 17, 18. (Prerequisite, Physics II).

Physics IV—Courses 25, 26; 27, 28. (Prerequisite, Physics III).

Physics IVH—Courses 25, 26, 27, 28, and four credits in Honors Courses (Prerequisite Maths. II, at least).

Physics V—Eight credits in Honors Courses.

Second Year Pharmacy—Courses 1, 2; 3, 4.

First Year Pharmacy (Degree Course)—Courses 1, 2; 3, 4.

Second Year Pharmacy (Degree Course)—Courses 7, 8; 15, 16

†First Year Engineering: Courses 11, 12; and 19; 20.

Second Year Engineering: Courses 13; 14; and 21; 22.

Third Year Engineering (Electrical): Courses 23, 24.

First Year Architecture: Courses 1, 2; 3, 4.

Second Year Architecture: Courses 11; 12.

The following courses are designed to give a consecutive treatment of both Theoretical and Practical Physics covering the four years of the general course in Arts and Science.

Physics I—Courses 1, 2; and 3, 4.

Physics II—Courses 7, 8; and 15, 16.

Physics III—Courses 9, 10; and 17, 18.

Physics IV—Courses 25, 26; and 27, 28.

Students intending to enter courses in Physics in the Senior Honors Division in Science are advised to consult page 37 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

N.B.—For key to system of numbering courses, see page 4.

†Note.—Starting with the Session 1932-33, Grade XI Physics will be a prerequisite for courses 11 and 12.

***1a, 2a. General Physics.** An introductory lecture course in General Physics illustrated by demonstration experiments. First Term: Mechanics, Properties of Matter, and Heat. Second Term: Electricity and Light. Three hours per week. Textbook, "New Practical Physics" by Black & Davis. *Mr. Anderson.*

***1, 2. General Physics.** A lecture course in General Physics, illustrated by demonstration experiments. First Term: Mechanics, Properties of Matter, and Heat. Second Term: Electricity and Light. A knowledge of Grade XI Physics is essential. Three hours per week. Text book "New Practical Physics," by Black and Davis. *Mr. Anderson.*

3a, 4a. General Physics (Practical). A laboratory course to accompany lecture courses 1a, 2a. One period of three hours per week of practical work and one period of three hours per week of combined tutorial and practical work. *Mr. Anderson.*

3, 4. General Physics (Practical). A laboratory course to accompany lecture courses 1, 2. One practical period of three hours per week. *Mr. Anderson.*

5, 6. General Physics (Practical). A laboratory course specially designed to illustrate those principles of Physics which are of particular service in Medicine. This course is intended only for students preparing to enter the Faculty of Medicine and is not open for election by students proceeding to the B.A. or the B.Sc. degree. Text-book, Practical Physics, Allen & Moore. One practical period per week. *Assistant Professor Young.*

7, 8. Mechanics, Properties of Matter, Heat and Sound. An elementary but more detailed treatment of these subjects than Course 1, 2. Text-books: Elementary Mechanics, Jessop and Havelock, The Tutorial Physics: Heat, Stewart and Satterly, Text-book of Sound, Catchpool. Three hours per week. *Professor Allen.*

9, 10. Electricity, Magnetism and Light. This course is similar in character to Course 7, 8. Three hours per week. *Associate Professor McClung.*

11, 12. Heat, Light and Sound. This course is designed to meet the requirements of Engineering students of the First Year. Two hours per week. *Associate Professor McClung.*

13, 14. Electricity and Magnetism. This course is designed to meet the requirements of Engineering students of the Second Year. Two hours per week. *Associate Professor McClung.*

15, 16. Mechanics, Heat and Sound. A laboratory course in the theory and methods of physical measurements, to be taken in conjunction with courses 7 and 8. One practical period of three hours per week for each student. *Mr. Anderson and Demonstrators.*

17, 18. Electricity, Magnetism and Light. A laboratory course similar in character and method to course 15, 16. One practical period of three hours per week for each student. *Associate Professor McClung and Demonstrators.*

19, 20. Mechanics, Heat, Light and Sound. A laboratory course especially for Engineering students. *Mr. Anderson.*

**A knowledge of Trigonometry is highly desirable in the study of Elementary Physics. Students may obtain this in Mathematics IA or Mathematics IIA.*

21, 22. **Electricity and Magnetism.** A course similar to course 17, especially for Engineering students. *Associate Professor McClung.*

23, 24. **Electrical Measurements.** This course comprises a more advanced study, both theoretical and practical, of electrical measurements and is especially suited to students in Electrical Engineering. It will involve the use of electrical standards, quantitative measurements of capacity of condensers, self and mutual induction, magnetic induction and hysteresis, potentiometer measurements, high and low resistance and photometry. *Associate Professor McClung.*

25, 26. **Modern Theories of Physics.** A general course discussing the molecular theory, production, nature and properties of the electron, Zeeman effect, X-rays and crystal structure, positive rays and isotopes, photo-electricity, radioactivity, atomic structure and origin of radiation. Reference texts: Andrade, The Structure of the Atom, Crowther, Ion Electrons and Ionising Radiation; Kaye, X-Rays; Rutherford, Radioactivity; Bragg, X-rays and Crystal Structure; Three hours per week. *Assistant Professor Young.*

27, 28. A laboratory course of Advanced Electrical Measurements. One practical period per week.

HONORS COURSES

The methods of the calculus will be used in these courses and students will be required to have a sound knowledge of both Differential and Integral Calculus. Mathematics II is a prerequisite.

The courses to be given in any year will be selected by the Department from the following:

25, 26. As above. Three hours per week.

27, 28. As above. One period per week.

29, 30. **Advanced Electricity and Magnetism.** This course will include Theory of Potential and Elementary Electromagnetic Theory. Text books: Starling, Electricity and Magnetism; J.J. Thomson, Elements of Mathematical Theory of Electricity and Magnetism. Three hours per week. *Assistant Professor Young.*

31, 32. **Advanced Heat and Elementary Thermodynamics.** Text books: Poynting and Thomson, Heat; Preston, Theory of Heat. Three hours per week. *Assistant Professor Young.*

33, 34. **Properties of Matter.** A comprehensive treatment based on Poynting and Thomson, Properties of Matter. Two hours per week.

35, 36. **Physical Optics.** This course will include wave propagation, interference, diffraction, polarization. Text book: The Theory of Light, Preston. Three hours per week. *Professor Allen.*

37, 38. **Mathematical Physics.** An introductory course based on Houston, An Introduction to Mathematical Physics. Two hours per week.

39, 40. **Geophysics.** *Assistant Professor Young.*

41, 42. **Laboratory Course for Honors Students.** This course is designed to illustrate the above lecture courses. One practical period per week in Fourth Year and two practical periods per week in Fifth Year. *Professor Allen and Assistant Professor Young.*

GRADUATE COURSES

The Department will arrange courses for suitably prepared students in Physiological Optics and Acoustics, the Restricted Theory of Relativity, with physical applications, Atomic Structure, and Quantum Theory.

The laboratory and its equipment are available whenever possible to anyone desirous of engaging in original investigation in Physics.

For the treatment of cancer in the Province of Manitoba, there has been established a Cancer Relief and Research Institute which has purchased one gram of radium salt for its purpose.

This large quantity of radium has been placed in the custody of the Department of Physics. A radium emanation plant is now in operation from which supplies of radium emanation are available for research.

Graduate students who are desirous of undertaking research work in this field will find ample opportunity for such investigations.

 DEPARTMENT OF POLITICAL ECONOMY AND POLITICAL SCIENCE

Archibald Brown Clark, M.A.....*Professor*
 Reginald F. Jones, M.A.....*Assistant Professor*
 William J. Waines, M.A.....*Lecturer*

Political Economy II—Courses 1, 2.
Political Economy III—Courses 3, 4.
Political Economy IV—Courses 5, 6. (Prerequisite, Political Economy III).
Political Economy IVH—Courses 5, 6; 11, 12. (Prerequisite, Political Economy III).
Political Economy V—Courses 11, 12; 17, 18. (Prerequisite, Political Economy IVH).
Master of Arts—Courses 21, 22; 23, 24; 25, 26; 27, 28.
Accountancy—Courses 19, 20.

N.B.—For key to system of numbering courses, see page 4.

1, 2. Economics. A half-subject elementary course on the Production and Distribution of Wealth, as in Henry Clay's "Economics for the General Reader." *First Term:* Chapters 1 to 6. *Second Term:* Chapters 7, 8, 9, 12, 13 and 21 to 25 inclusive. Two hours a week.

Note: This half-subject course is *not* necessary as a preliminary to the other courses in Political Economy.

3, 4. Political Economy. A survey of the leading principles of Political Economy, together with the chief landmarks in the history of Economic Theory. A more intensive study of Wages, Profits, Rent, Value, Money and Banking. The student is expected to read the following, together with the relevant parts of other works that may be referred to, in supplement of the lectures.

First Term: Nicholson, "Elements of Political Economy," Intro. and Book I; Book II, Chapters 1 to 4; Book III, Chapters 1 and 5. Mill, "Principles of Political Economy," Prelim. Remarks and Book I; Book II, Chapters 1 to 4; Book III, Chapters 1 and 7. Beckhart, "The Banking System of Canada," pp. 289 to 357. L. L. Price, "Political Economy in England," Chapters 1, 2, 5, 8.

Second Term: Nicholson, Book II, Chapters 6 to 10; Book III, Chapters 2 to 4, 6 to 12. Mill, Book II, Chapters 11 to 16; Book III, Chapters 2 to 6, 8 to 16, 23, 24, 26. Beckhart, pp. 357 to end. Price, Chapters 4, 6, 7. Four hours a week.

5, 6. Government, Trade and Taxation. A study of the Economic Functions of Government, Foreign Trade Policy and the Principles of Taxation and Public Expenditure. *First Term:* Adam Smith, "Wealth of Nations," Book II, Chapter 5; Book III, Chapter 1; Book IV, Chapters 1, 2; Book V, Chapter 1. Mill, "Principles of Political Economy," Book III, Chapter 17; Book V, Chapters 1, 8 to 11. Nicholson, "Principles of Political Economy," Vol. III, Book V, Chapters 1 to 4, 14, 19. Bastable, "Theory of International Trade," Chapters 1, 8, 9; and "Commerce of Nations," Chapters 1 to 4, 12 to 15. *Second Term:* Adam Smith, Book IV, Chapters 3 to 8; Book V, Chapter 2. Mill, Book III, Chapters 18 to 22, 25; Book V, Chapters 2 to 6. Nicholson, Vol. III, Book V, Chapters 3 to 13, 15 to 18. Bastable, "Theory," Chapters 2 to 7, 10 and Appendices "Commerce of Nations," Chapters 5 to 11, 16 to 18. Seligman "Essays in Taxation."

Reference will also be made to special parts of Marshall's "Money, Credit and Commerce;" Stamp's "Principles of Taxation," and "Wealth and Taxable Capacity;" Seligman's "Shifting and Incidence of Taxation;" and to the works on Public Finance by Bastable, Adams, Lutz, Plehn, Shirras and Pigou. Four hours a week.

7, 8. Economic Theory. A discussion of some of the more difficult problems in Economic Theory, together with the application of Economic Principles to the more important present-day Economic Problems. *First Term:* Keynes, "Scope and Method of Political Economy," Chapters I to V, with Notes; Marshall, "Principles of Economics," Book III; Book V, Chapters 1 to 9; Taussig, "Principles of Economics," Vol. I. *Second Term:* Keynes, Chapters VI to X, with Notes; Marshall, Book V, Chapters 10 to 15; Book VI; Appendices G to L; Taussig, Vol. II. Four hours a week. (Not given in 1931-32.)

9, 10. History of Economic Theory. A study of the more important contributions to the historical development of Economic Theory. *First Term:* Haney, "History of Economic Thought," Chapters 1 to 14. Gide and Rist, "History of Economic Doctrines," Books I and II, and Book III, Chapter 1. *Second Term:* Haney, Chapters 15 to 33. Gide and Rist, Book III, Chapter 2, and Books IV and V. *For reference:* Ingram, "History of Political Economy;" Higgs, "The Physiocrats;" Bonar, "Philosophy and Political Economy;" Cannan, "History of the Theories of Production and Distribution." Monroe, "Monetary Theory before Adam Smith," and "Early Economic Thought." Four hours a week.

11, 12. Banking and Finance. A study of the leading banking and credit systems, and of the operation of the foreign exchanges and the stock and produce exchanges.

The student will be expected to read in supplement of the lectures R. B. Westerfield, "Banking Principles and Practice;" W. R. Burgess, "The Reserve Banks and the Money Market;" Goldenweiser, "The Federal Reserve System in Operation;" Pratt, "The Work of Wall Street;" Spalding, "The London Money-Market;" Patterson and Jenks, "International Exchange;" Atwood, "The Stock and Produce Exchanges." *For Reference:* Kish and Elkin, "Central Banks;" Willis, "The Federal Reserve System;" Kemmerer, "The A B C of the Federal Reserve System;" Withers, "The Meaning of Money" and "International Finance;" Conant, "Prin-

ciples of Money and Banking;" Dunbar, "Theory and History of Banking;" Moulton, "Money and Banking;" Phillips, "Bank Credit;" Sprague, "Bank Credit and Business Cycles;" Furniss, "Foreign Exchange;" Escher, "Foreign Exchange Explained." Four hours a week.

13, 14. Public Finance and Financial Administration. A further study of Public Revenue, Public Expenditure and Public Credit, and of the principles governing the Administration of National Finance, as in Shirras: "The Science of Public Finance"; Pigou: "Public Finance"; Lutz: "Public Finance;" Seligman: "Studies in Public Finance"; E. Hilton Young: "The System of National Finance." Throughout the course, reference will also be given to selected parts of Bastable, "Public Finance"; Adams, "Science of Finance"; Plehn, "Public Finance"; Seligman, "Essays in Taxation"; Higgs, "Financial System of the United Kingdom"; Willoughby, Willoughby and Lindsay, "Financial Administration of Great Britain"; and Stourm, "The Budget." Four hours a week. (Not given in 1931-32.)

15, 16. Economic History—Mediaeval. A study of the Economic History of England to the end of the Middle Ages. Cunningham, "Growth of English Industry and Commerce," Vol. I ("Early and Middle Ages"); Lipson, "Economic History of England—The Middle Ages." Knight's "Economic History of Europe to the end of the Middle Ages." *For reference:* Ashley, "Introduction to Economic History and Theory," and "Surveys, Historic and Economic;" Seebohm, "English Village Community;" Maitland, "Domesday Book and Beyond," and "Township and Borough;" Vinogradoff, "Villainage in England," "The Growth of the Manor," and "English Society in the Eleventh Century;" Gross, "The Gild Merchant;" Unwin, "Gilds and Companies of London;" Hall, "Antiquities of the Exchequer," and "History of the Customs Revenue;" Salzmann, "English Industries in the Middle Ages;" Bland, Brown and Tawney, "English Economic History—Select Documents." Four hours a week. (Not given in 1931-32.)

17, 18. Political Science. A critical study of Political Theories in their relation to actual political development, and a survey of Comparative Politics. The Nature and Origin of the State; Forms of Government; The Sphere of the State; Principles, Methods and Limitations of Governmental Interference; The Organization of Government; Distribution of Powers.

For reading in supplement of the lectures, students will be referred to: Pollock, "History of the Science of Politics;" I. J. C. Brown, "English Political Theory;" Hobbes. "Leviathan," Part I, chapters 13-15, Part II; Locke, "Civil Government," Book II; Laski, "Political Thought from Locke to Bentham"; Rousseau, "Contrat Social" (Eng. Trans.); Mill, "On Liberty"; Hobhouse, "Liberalism"; MacIver, "The Modern State"; E. Jenks, "The State and the Nation," and to the relevant parts of Maine, "Early History of Institutions"; Sidgwick, "Elements of Politics" and "Development of European Polity"; Mill, "Representative Government"; Bagehot, "English Constitution"; Lowell, "The Government of England" and Governments and Parties in Continental Europe"; Bryce, "The American Commonwealth," "Studies in History and Jurisprudence" and "Modern Democracies"; Keith, "Responsible Government in the Dominions" and Imperial Unity and the Dominions." Four hours a week.

19, 20. Political Economy (for Accountants, Bankers and Business Men). A general survey of the principles governing Production and Distribution of Wealth; and a more intensive study of the Theory of

Exchange, including Value, Money, Credit, Banking, the Money-market, the Rate of Interest and the Rate of Discount, International Trade, Foreign Exchanges, and the Stock Exchange.

Reading in supplement of the lectures: Nicholson, "Elements of Political Economy," a general knowledge of Books I and II, with a more exact knowledge of Book III. MacGibbon, "Introduction to Economics." Withers, "The Meaning of Money." Two hours a week.

GRADUATE COURSES

(Lectures may not be offered in these Courses in 1931-1932.)

21, 22, **Political Economy** (Major). Marshall, "Money, Credit and Commerce," and "Official Papers;" J. M. Keynes, "A Treatise on Money;" Taussig, "International Trade;" Furniss, "Labour Problems;" Beveridge, "Unemployment," 1930 Edition. (Two Papers.)

23, 24. **Business Economics** (Minor). H. G. Moulton, "Financial Organization of Society;" H. L. Lutz, "Public Finance." (One Paper.)

25, 26. **Economic History—Modern** (Minor). W. Cunningham, "Growth of English Industry and Commerce: Modern Times," Part I; J. H. Clapham, "Economic History of Modern Britain, 1820-1850"; and the same author's "Economic Development of France and Germany, 1815-1914;" Knight, Barnes and Flugel, "Economic History of Europe: Modern Times." (One Paper.)

27, 28. **Political Science** (Minor). Dicey, "Law and Public Opinion in England"; MacCunn, "Six Radical Thinkers"; E. Barker, "Political Thought in England from Herbert Spencer to the Present Day"; C. E. Joad, "Modern Political Theory." (One Paper.)

Note.—Candidates for the M.A. Degree in this Department must combine Political Economy with *either* (a) Economic History or (b) Political Science.

SOCIOLOGY

Reginald F. Jones, M.A. Assistant Professor

Sociology III—Courses 1, 2.

Sociology IV—Courses 3, 4.

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Sociology** (a) First Term: Character and Scope of Sociology and its relations to Biology, Psychology, Social Psychology, History, Political Economy, and the various social sciences. Methods of Investigation. Society and the Individual. Origin and Evolution of Society. Forms of Association. Socializing Processes. Social Organization. History of Sociology.

(b) Second Term: Social Forces, their direction and control. Theory of Social Progress. Social Laws. Social Activities, including conflict and

competition, adaptation, exploitation and stratification. Law and Liberty in Society. Relations between various social groups, racial, national, etc. Social Achievement. Social Ends. Four hours per week.

Works of Reference: In calling the attention of students to the following list of books bearing on certain of the subjects to be studied, the examiners in Sociology give notice (1) that the list is intended for general guidance only, and that all students should take personal advice as to their reading, and (2) that the examiners are in no way bound by this list.

"The Encyclopaedia of the Social Sciences" (now in course of publication); Giddings, "Principles of Sociology;" Ross, "Principles of Sociology;" Spencer, "The Study of Sociology;" Bagehot, "Physics and Politics;" Müller-Lyer, "History of Social Development;" Barth, "Die Philosophie der Geschichte als Soziologie;" Park and Burgess, "Introduction to Sociology;" R. M. MacIver, "Social Science;" R. M. MacIver, "Community;" Cooley, "Social Organization;" James Ford, "Social Problems and Social Policy;" Dealey, "Sociology; Its Development and Applications;" C. A. Dawson and W. E. Gettys, "An Introduction to Sociology."

In addition, the "Encyclopaedia of Religion and Ethics" and various general encyclopaedias contain many articles on sociological subjects.

3, 4. Applied Sociology. (a) *First Term:* Character and Scope of Applied Sociology. Personal Relations. Voluntary Associations. Social Institutions; Marriage and the Family; the Church; Education. Social Control by means of the State the exception rather than the rule: Direct State Control illustrated by selected groups of instances, e.g., Public Administration and the Civil Service, Relations between Parliament and certain Boards or Commissions, Methods of regulating certain kinds of trade, etc.

(b) *Second Term:* Normal Functions of Society with little or no State Control; illustrations from Business, Law, Medicine, etc., considered in their social aspects. The Economic Problem; the predominance of Private Enterprise, and the scope of Public Ownership and Public Management in certain instances. Population and Immigration. Social Pathology: Poverty, Public and Private Relief; Mental Deficiency; Crime, Juvenile Delinquency, Probation, Prisons and Parole. Principles and Methods of Social Reform and Improvement. Four hours per week.

Works of Reference. In calling the attention of students to the following list of books bearing on certain of the subjects to be studied, the examiners in Sociology give notice (1) that the list is intended for general guidance only, and that all students should take personal advice as to their reading, and (2) that the examiners are in no way bound by this list.

"The Encyclopaedia of the Social Sciences" (now in course of publication); James Ford, "Social Problems and Social Policy;" Lester F. Ward, "Applied Sociology;" Ross, "Principles of Sociology;" W. G. Sumner, "Folkways;" Helen Bosanquet, "The Family;" The Canada Year Book and other publications of the Dominion Bureau of Statistics; Robert M. Dawson, "The Principle of Official Independence, with particular reference to Canada;" William A. Robson, "From Patronage to Proficiency in the Public Service;" R. G. Hawtrey, "The Economic Problem;" F. Creedy, "Human Nature in Business;" A. M. Carr-Saunders, "Professions: Their Organization and Place in Society."

DEPARTMENT OF ZOOLOGY

Robert A. Wardle, M.Sc.....	Professor
C. Curtis Riley, A.M., M.S.....	Assistant Professor
Ferris Neave, M.Sc.....	Lecturer
C. K. Gunn, B.Sc.....	Senior Demonstrator
E. May Lyons, B.Sc.....	Demonstrator
R. Boughton, B.Sc.....	Demonstrator
G. M. Barrett-Hamilton.....	Student Assistant
J. McC. Kilgour.....	Student Assistant

Zoology II—Courses 1, 2.

Zoology IIM—Courses 3, 4.

Zoology III—Courses 5, 6. (Prerequisite, Zoology II or IIM).

Zoology IV—Courses 7, 8. (Prerequisite, Zoology III).

Zoology IVH—Courses 7, 8 and 11, 12, or 13, 14. (Prerequisite, Zoology III).

Zoology V—Courses 9, 10 and 11, 12 or 13, 14. (Prerequisite, Zoology IVH).

Students intending to enter courses in Zoology in the Senior Honours Division in Science are advised to consult page 37 for guidance as to choice of subjects in the Junior Division and in the First Year of the Senior Division.

1, 2. Animal Biology. The principles of Animal Biology; the morphology and physiology of a series of unicellular and multicellular animals; the elements of animal ecology and classification. Arranged for Second Year Students in Arts and Science. Textbooks: Haupt, *Fundamentals of Biology* and Sigerfoos, *Laboratory Directions in General Zoology*. Two lectures per week and three laboratory hours per fortnight throughout the session. *Professor Wardle.*

3, 4. General Zoology. The comparative morphology and physiology of a series of animal types; the elements of animal cytology, histology and embryology; the principles of heredity; the elements of medical zoology. Arranged for Pre-Medical Students and Honours Science Students. Textbook: O'Donoghue, *Introduction to Zoology*, or Borradaile, *Elementary Zoology*. Three lectures and five laboratory hours per week throughout the session. *Professor Wardle, Professor Riley, Mr. Neave.*

5, 6. Zoology of Invertebrata. The morphology, physiology and classification of invertebrate animals. Arranged for Third Year Students. Textbook: Shipley and MacBride, *Textbook of Zoology*, or Parker and Haswell, *Textbook of Zoology*, Volume I. Three lectures and three laboratory hours per week throughout the session. *Professor Riley.*

7. General Entomology. An introduction to the structure, physiology and classification of insects. Textbook to be arranged. Two lectures and six laboratory hours per week during the First Term. *Mr. Neave.*

8. Zoology of Chordata. The structure, physiology and classification of chordate animals. Textbook: Shipley and MacBride, *Textbook of Zoology*, or Parker and Haswell, *Textbook of Zoology*, Volume II. Two lectures and six laboratory hours per week during the Second Term. *Professor Wardle.*

9. Applied Zoology. The application of zoological knowledge to fisheries, fur production, livestock breeding; the principles of Medical Zoology; the principles of Agricultural Zoology. Textbook: Wardle, *Principles of Applied Zoology*. Two lectures and six laboratory hours per week during the First Term. *Professor Wardle.*

10. Embryology of Chordata. An outline of the embryology of the Chordata studied in a series of selected types. Textbooks: Kellicott, *Chordate Development*; Ballantyne, *Introduction to the Technique of Section Cutting*. Two lectures and six laboratory hours per week during the Second Term. *Mr. Neave.*

11. Animal Ecology. The relation of animals to their environment; the influence of light, temperature, moisture, gravity, water currents, etc., on animal behaviour. Textbook: Adams, *Guide to the Study of Animal Ecology*. Two lectures and three laboratory hours per week during the First Term in alternate sessions. (Not given in 1931-32.) *Professor Riley.*

12. Hydrobiology. The physiology and ecology of aquatic animals, with particular reference to the biological problems of the Prairie Lakes. Textbook: Needham, *Guide to the Study of Freshwater Biology*. Two lectures and three laboratory hours per week during the Second Term, in alternate sessions. (Not given in 1931-32.) *Mr. Neave.*

13. Physiological Zoology. The fundamental physiological processes of animals and the basic factors of animal behaviour. Textbook: Rogers, *Textbook of Comparative Physiology*. Two lectures and three laboratory hours per week during the First Term, in alternate sessions. *Professor Riley.*

14. Parasitology. An account of the structure, life cycle and pathogenicity of the protozoan, helminth and arthropodan parasites of man, domesticated animals, furbearing animals and edible fishes. Two lectures and three laboratory hours per week during the Second Term in alternate sessions. *Professor Wardle.*

Graduate Courses. Graduate Courses consisting of two seminars per week and three hours of laboratory or library work will be provided in advanced phases of Morphology, Cytology, Ecology, Entomology, Experimental Zoology and Parasitology.

Research. Laboratory and library facilities are available to any qualified investigator desirous of conducting biological investigations.

Departmental Requirements for the degree of Master of Science or Master of Arts.

Candidates with the degree of Bachelor of Arts or Pass Bachelor of Science must complete *two* years of work in the Department of Zoology and must attend—

- (1) In the first year of graduate work the courses comprised in Zoology V, together with further courses to the value of eight units, four of which may be taken in Zoology.

- (2) In the second year of graduate work, two graduate courses in Zoology, and
- (3) In the first or second graduate year must complete and pass an examination in a Minor Subject, preferably in some other Department.

Candidates with the degree of Honours Bachelor of Science must complete one year's work in the Department of Zoology, must attend two graduate courses in Zoology and must complete and pass an examination in a Minor Subject, preferably in some other Department.

All Candidates will be required to submit a thesis based upon original work carried out under the direction of the Department of Zoology, and in a condition suitable for immediate publication, and in addition they must pass an oral examination on the subject of the thesis and a written examination upon the subjects of the graduate courses, and upon the subject matter of four selected books.

For General Requirements for M.A. and M.Sc., refer to pages 30-31; 40-42.

BIBLICAL GREEK

Instruction in Biblical Greek is provided only in the affiliated Colleges.

Biblical Greek IA—Courses 1, 2.

Biblical Greek I—Courses 3, 4. (Prerequisite, Biblical Greek IA or Matriculation Greek or Classical Greek I.)

Biblical Greek II—Courses 5, 6. (Prerequisite, Biblical Greek I.)

Biblical Greek III—Courses 7, 8. (Prerequisite, Biblical Greek II.)

Biblical Greek IV—Courses 9, 10. (Prerequisite, Biblical Greek III.)

N.B.—For key to system of numbering courses, see page 4.

1, 2. Moulton's First Greek Reader in New Testament Greek will be covered, together with the corresponding sections of Moulton's Introduction to New Testament Greek. First Term: Exercises 1-27. Second Term: Exercises 28-50, with a reading of the Gospel According to St. John, Chapters I-III. Four hours a week.

3, 4. The Acts of the Apostles, with Nunn's A Syntax of New Testament Greek and sentences in Greek Composition. First Term: Part 1. Nunn, A Syntax of New Testament Greek, pages 25-86, with exercises in composition based on the prescribed reading. Equivalent to one-third of the paper. Part 2, The Acts of the Apostles, Chapters I-XII. Equivalent to two-thirds of the paper. Second term: Part 1. Nunn, A Syntax of New Testament Greek, pages 87-134, with exercises in composition based on the prescribed reading. Equivalent to one-third of the paper. Part 2. The Acts of the Apostles, Chapters XIII-XXVIII. Equivalent to two-thirds of the paper. Four hours a week.

5. (a) The Gospel According to St. Mark and the following selection from the Gospel According to St. Matthew (Chapters I-II, V-VII, X, XIII, XVIII, XXII, XXV, XXVIII), and from the Gospel According to St. Luke (Chapters I-II, IV, VI, X-XII, XIV-XVI, XIX, XXIV), with exercises in composition based on the prescribed reading and with constant

reference to Burton's New Testament Moods and Tenses and Robertson's or Moulton's larger grammars. Equivalent to three-quarters of the paper. (b) The History of the Intertestamental and New Testament Periods (to the close of the reign of Herod the Great); a survey of the Apocalyptic movement and literature; and a survey of the Synoptic Problem. Lectures or C. M. Grant, *Between the Testaments*, Part I; article by H. T. Andrews, "Apocalyptic Literature," in Peake's *Commentary on the Bible*; and article by F. D. V. Narborough, "The Synoptic Problem," in Gore, *A New Commentary on Holy Scripture*. Equivalent to one-quarter of the paper. Four hours a week.

6. (a) The Epistle to the Romans (Chapters I-XI); the First Epistle to the Corinthians; and the Wisdom of Solomon (Chapters I-VIII), with a study of the Introduction in Gregg's commentary in *The Cambridge Bible for Schools and Colleges*, with exercises in composition based on the prescribed reading and with constant reference to Burton's New Testament Moods and Tenses and Robertson's or Moulton's larger grammars. Equivalent to three-quarters of the paper. (b) A Study of Hellenistic Judaism; a survey of the books of the Apocrypha; and a study of the textual criticism of the Bible. Lectures or W. W. Tarn, *Hellenistic Civilization*, Chaps. III-VI, X; C. M. Grant, *Between the Testaments*, Chaps. XIII and XIV; and articles by L. E. Binns, "Texts and Versions (Old Testament)" and C. H. Turner, "The Textual Criticism of the New Testament" in Gore's *Commentary*. Equivalent to one-quarter of the paper. Four hours a week.

7. (a) The Epistle to the Philippians; the Epistle to Philemon; the Epistle to the Hebrews; the Second and Third Epistles of St. John; I. Maccabees (Chapters I-IX), with a study of the Introduction in Fairweather and Black's commentary in the *Cambridge Bible for Schools and Colleges*, with exercises in composition based on the prescribed reading and with constant reference to Burton's New Testament Moods and Tenses and Robertson's or Moulton's larger grammars. Equivalent to three-quarters of the paper. (b) A Study of Early Christianity. Lectures of F. J. Foakes-Jackson, *The Rise of Gentile Christianity*. Equivalent to one-quarter of the paper. Four hours a week.

8. (a) The First Epistle to Timothy; the Epistle of James; the Epistle of Jude; the Revelation of John (Chapters I, XII, XIII, XVII, XX); Ecclesiasticus (Chapters I-XII), with a study of the Introduction in Oesterley's commentary in the *Cambridge Bible for Schools and Colleges*, with exercises in composition based on the prescribed reading and with constant reference to Burton's New Testament Moods and Tenses and Robertson's or Moulton's larger grammars. Equivalent to three-quarters of the paper. (b) A study of the pagan background of Early Christianity. Lectures or articles by Prof. Haverfield, "The Roman Empire in the First Century" and Gilbert Murray, "Pagan Religion at the Coming of Christianity" in Peake's *Commentary* and article by Clifford H. Moore, "Life in the Roman Empire at the Beginning of the Christian Era," in *The Beginnings of Christianity*, Vol. I, edited by Foakes-Jackson and Lake. Equivalent to one-quarter of the paper. Four hours a week.

9. Conybeare & Stock, *Selections from the Septuagint*, pages 108-142, 205-221, 265-290, with reference to the grammar of Septuagint Greek contained therein; Letter of Aristeas; selections from Josephus. Four hours a week.

10. IV Maccabees; selections from Philo (*Life of Moses*, Book 2; *Decalogue*); selections from Lucian. Four hours a week.

BIBLICAL LITERATURE

Instruction in Biblical Literature is provided only in the affiliated Colleges.

Biblical Literature III. Courses 1, 2, 5 and 6.

Biblical Literature IV. Courses 3, 4, 7 and 8.

(Only Biblical Literature IV will be offered in 1931-1932.)

OLD TESTAMENT

1. **The Early Period.** The books concerning the history, archaeology and religious development of Israel from the earliest times till the Conquest of Canaan with minute investigations of selected passages. English Bible (revised version) or that of the Jewish Publication Society. Kent, Historical Bible, Heroes and Crises; or Clarendon Bible, volumes 1, 2, 6. Two hours.

2. **The Monarchy.** The books concerning the history, archaeology and religious development of Israel and Judah from the time of the Judges to the end of Hezekiah's reign. Kent, Founders and Rulers, Kings and Prophets; or Clarendon Bible, volumes 2, 3. English Bible, (revised version) or that of the Jewish Publication Society. Two hours.

3. **The Exile.** The books concerning the history, archaeology and religious development of the Jewish Kingdom from the reign of Manasseh till the close of the Babylonian Exile, with minute investigations of selected passages. English Bible, (revised version) or that of the Jewish Publication Society. Kent, Kings and Prophets, Makers and Teachers of Judaism, or the Clarendon Bible, volumes 3, 4. Two hours.

4. **Post-Exilic Times.** The books concerning the history, archaeology and religious development of the Jewish Community from the Return from the Babylonian Captivity till the Roman Period with minute investigations of selected passages. English Bible, (revised version) or that of the Jewish Publication Society. Kent, Makers and Teachers of Judaism or Clarendon Bible, volumes 4, 5. Two hours.

NEW TESTAMENT

5. The political, economic and religious background of the times of Jesus beginning with the Roman Period. The life of Jesus, with a critical study of the Synoptic Gospels as sources for the life of Jesus, involving a consideration of the authorship, aim, and characteristics of these Gospels. Riggs—History of the Jewish People, Greek and Roman Periods; MacKay, John—The Life of Jesus; Bethune-Baker, J. F.—Early Traditions about Jesus; Vincent Taylor—The Gospels. Two hours a week with assigned essay work.

6. The History of the Christian Church from the death of Jesus to the destruction of Jerusalem, with a detailed study of the life of Paul. The Acts of the Apostles will be studied in the Revised Version as the source of the history of the Early Church and of the life of Paul. The aim, authorship and characteristics of the Acts will receive special consideration. Blount—The Acts of the Apostles; MacKay, John—Life of Saint Paul; Ramsay—St. Paul, the Traveller and Roman Citizen. Two hours a week with assigned essay work.

7. The Growth of the Christian Literature, involving a study of its language, the making of the books, and their transmission. The following letters of the New Testament will be critically studied: Romans, I and II Corinthians, Philippians, I Timothy and I Peter.

Hunter, C. F.—Life History of the New Testament.

The study of the letters mentioned above will include such topics as: "The Contents, the Teachings, the Date, the Authorship, the Genuineness and the Circumstance surrounding the composition of each as in the Abingdon Bible Commentary or any other authoritative work." Two hours a week with assigned essay work.

8. The Books of the New Testament appearing after 70 A.D., with a study of apocalyptic literature in the first century of the Christian era. This will involve a survey study of St. John's Gospel, the Epistle to the Hebrews, II Peter, Revelation. This will be followed by a survey of the stages through which the New Testament, Greek and English, has passed until the present Revised Version.

Scott, E. F.—The Fourth Gospel; Goodspeed—Hebrews (The Bible for Home and School); Dean, J. T.—The Book of Revelation; Smyth, Patterson—How we got our Bible. Two hours a week with assigned essay work.

HEBREW

Instruction in Hebrew is provided only in the affiliated colleges.

Hebrew I—Courses 1, 2.

Hebrew II—Courses 3, 4. (Prerequisite, Hebrew I).

Hebrew III—Courses 5, 6, 7, 8. (Prerequisite Hebrew II).

Hebrew IV—Courses 9, 10, 11, 12. (Prerequisite Hebrew III).

Hebrew IVH—Courses will be outlined on request.

Hebrew VH—Courses will be outlined on request.

N.B.—For key to system of numbering courses, see page 4.

1, 2. Harper's Method and Manual (Smith) First Term, exercises 1-17, inclusive. Second Term, exercises 18-30, inclusive, Genesis, Chapter 24. Four hours.

3, 4. Harper's Method and Manual (Smith). First Term, exercises 31-44, inclusive. Second Term, exercises 45-56, and the study of Ruth, chapters 1, 2, 3, 4; Judges, chapter 11; Psalm 107. Four hours.

5. **Hebrew, Historical and Poetic.** (a) Genesis, chapters 15, 22, 23, 27; Nehemiah, chapters 2, 4, 5; (b) Psalms 91, 95, 97, 103, 104, 114, 121, 122, 123, 125, 128, 129, 130, 131, 137, 149. Two hours.

6. **Hebrew, Legal and Wisdom.** Exodus, chapter 40; Leviticus, chapters 1, 19, 23; Deuteronomy, chapters 6, 8, 12; (b) Proverbs, chapters 6, 10, 15, 22, 23; Ecclesiastes, chapters 2, 3, 12. Two hours.

7. **The Early History, Archaeology and Historical Geography of Syria and Palestine.** Paton, Syria and Palestine; Hall, Near East; The Cambridge Ancient History; Barton, Archaeology and the Bible; G. A. Smith, Historical Geography. Two hours.

8. **The History and Archaeology of Israel and Judah from the Time of the Early Monarchy to the Maccabean Period.** Bailey and Kent, History of the Hebrew Monarchy. Barton, Smith. Two hours.

9. **Hebrew, Prophetic and Dramatic.** (a) Micah, Nahum; (b) Job, chapters 22-32, inclusive. Two hours.

10. **Hebrew, Prophetic and Apocalyptic.** (a) Habakkuk, Obadiah, Haggai, Malachi; (b) Joel, Zephaniah, Zechariah, chapter 14. Two hours.

11, 12. **Old Testament Criticism, Introduction, Religion.** First Term: (a) Kenyon, Our Bible and the Ancient Manuscripts, chapters 1, 2, 3, 4, 5, 11, or Geden, Introduction to the Hebrew Bible, chapters 1, 2, 3, 4, 5, (b) Gray, Bennett and Adeney, or Driver, The Pentateuch and Former Prophets; (c) Synopsis of "The Religion of Israel" Prof. W. G. Jordan; Peake's Commentary. Second Term: (a) The Later Prophets and the Writings. (b) Synopsis of Cornill, "The Prophets of Israel." Two hours.

Note—Essays and synopses are to be handed to the Registrar on or before December 1st in case of First Term Courses, and on or before April 1st in case of Second Term courses. In connection with courses 5, 6, 9, 10, syntactical principles are to be mastered, use being made of the syntax of either A. B. Davidson or Harper. For interpretation, the Century, Cambridge, Expositors or Peake's Bible Commentaries may be used. In connection with courses 7, 8, 11, 12, the English Bible (revised version) or that of the Jewish Publication Society should be used.

ICELANDIC

Icelandic I—Courses 1, 2; 3, 4. (Prerequisite, Matriculation Icelandic).

Icelandic II—Courses 5, 6; 7, 8. (Prerequisite, Icelandic I.)

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Grammar.** An Elementary Grammar of Old Icelandic (H. M. Buckhurst, Methuen & Co.) (a) First Term: Chapters 1 to 3; (b) Second Term: Chapters 4 to 9. One hour a week.

3, 4. **Authors.** Easy Readings in Old Icelandic (W. A. Craigie) I. B. Hutchen, Edinburgh. (a) First Term; Selections 1 to 30; (b) Second Term: Selections 31 to 60, together with the following: *Íslendinga Pættir* (ed. by Þorleifur Jónsson, Rvík 1904): (1) *Ívars þáttur 'Ingimundarsonar* (2) *Þorarins þáttur Neffjólfssonar*. (3) *Þorleifs þáttur jarlsskálds*. Three hours a week.

5, 6. **Authors.** With grammar in conjunction. (a) *Gunnlaugs Saga Ormstungu*. (b) *Saemundar Edda* (F. Jónsson), pp. 87-107. Four hours a week.

7, 8. **Authors.** With grammar in conjunction. (a) *Saemundar Edda* (F. Jónsson), pp. 1-58, 137-160, 169-173. (b) *History of Icelandic literature* (F. Jónsson), pp. 69-91. Four hours a week.

RELIGIOUS EDUCATION

Instruction in Religious Education is provided only in the affiliated Colleges.

Religious Education (Psychology and Methods)—Courses 1, 2.

Religious Education (Principles and History)—Courses 3, 4.

N.B.—For key to system of numbering courses, see page 4.

1. The Psychology of Religious Education. This course is a study of the psychological principles underlying the religious life of childhood and adolescence, and a survey of the leading facts concerning morals, manners, and religion of childhood and youth. Four hours a week. Texts: Norsworthy and Whitley, *Psychology of Childhood*; Tracy, *The Psychology of Adolescence*; Horne, *The Psychological Principles of Education*.

2. Curricula and Teacher Training. This course deals with the history of the curriculum; the principles determining the selection of materials; the methods of grading and organizing materials; the principles involved in the teaching process; present tendencies in teacher training; and examination of current curricula. Four hours a week. Texts: Betts, *The Curriculum of Religious Education*; Betts and Hawthorne, *Method in Teaching Religion*; Bower, *The Curriculum of Religious Education*.

3. Philosophy and Principles. This course deals with the fundamental presuppositions and principles of religious education; psychological and social factors conditioning religious growth and development; functions of family, church and state in religious education. Four hours a week. Texts: Horne, *The Philosophy of Education*; Soares, *The Principles of Religious Education*.

4. The History of Education. This course gives a survey of the development of educational practice and theory beginning with the Hebrew and extending to our own times; the lives and ideals of the great educational reformers; the great catechisms; the beginnings of the Sunday School movement; modern movements in religious education. Four hours a week. Texts: Cubberley, *A Brief History of Education*; Brown, *A History of Education in Recent Times*.

Note—The following books are suggested as reference literature for students of Religious Education: Leta S. Hollingsworth, *Psychology of the Adolescent*; Egglestone, *Womanhood in the Making*; Veith, *Teaching for Christian Training*; Bobbitt, *The Curriculum*; Munro, *History of Education*; Chapman and Counts, *Principles of Education*; Weigle, *Training of the Child in the Christian Family*; Emme and Stevick, *Principles of Religious Education*; Coe, *Christian Education*.

PHILOSOPHIE LATINE

LATIN PHILOSOPHY

Instruction in Latin Philosophy is provided only in St. Boniface College.

N.B.—Pour l'interprétation des chiffres désignant les cours, voir la clef, page 4.

N.B.—For key to system of numbering courses, see page 4.

TROISIÈME ET QUATRIÈME ANNÉES

THIRD AND FOURTH YEARS

1931-32 et tous les deux ans alternativement.

1931-32 and every alternate year.

1, 2. Philosophia Scholastica. Premier terme, First term: Logica, Ontologia, Cosmologia. Second terme, Second term: Psychologia, Theodicea. Neuf heures par semaine. Nine hours a week.

3, 4. **Monsabré.** Oeuvres de Dieu (Conférences, 1875). Une heure par semaine.

3a. **Gerard.** The Old Riddle and Newest Answer. One hour a week.

4a. **Psychologie.** De la Vaissière, Elements de Psychologie expérimentale. Définitions et méthodes; système nerveux, sensations, imagination et lois des associations; vie affective, vie consciente, vie sensitive et vie suprasensible; phénomènes transcendants. Lectures: Cardinal Mercier, Psychologie, Tome II; A. Castelein, Psychologie. Une heure par semaine.

4b. **Psychology.** Maher, Psychology. One hour a week.

5, 6. **Education Religieuse.** A. Boulenger, La Doctrine Catholique (Le Dogme). Lectures: Spalding, Religion, Agnosticism and Education; G. Neyron, Le Gouvernement de l'Eglise. Une heure par semaine.

5a, 6a. **Religious Education.** Spalding, Education and the Higher Life. One hour per week.

7, 8. **Histoire de la Philosophie.** D. Barbedette, Histoire de la Philosophie, pages 1-294. Premier terme: Philosophie orientale, grecque gréco-romano-orientale, patriotique. Deuxième terme: Philosophie byzantine, arabe et juive, scholastique. Une heure par semaine.

7a, 8a. **History of Philosophy.** Turner, pages 1-323. First term: Oriental, pre-Socratic, Socratic and Aristotelian Philosophy. Second term: Post-Aristotelian, Graeco-Oriental, Patristic and Scholastic Philosophy. One hour a week.

9, 10. **Physique.** Premier terme: Notions de Mécanique, Hydrostatique, Pesanteur, Chaleur. Second terme: Acoustique, Optique, Electricité et Magnétisme. Quatre heures par semaine. Auteur: Leday, Manuel de Physique.

9a, 10a. **Physics.** First term: Statics, Hydrostatics, Heat. Second term: Sound, Light, Electricity and Magnetism. Four hours a week. Text-book: Goodspeed, Principles of Physics.

11, 12. **Physique Experimentale.** Les élèves font une série d'expériences dans le but d'illustrer les principes étudiés pendant les cours. Deux heures par semaine. Auteur: Noble, Manipulations physiques.

11a, 12a. **General Physics (Practical).** The students perform a series of experiments to illustrate the theoretical principles studied in the lectures. Two hours a week. Text book: Milliken, Gale and Bishop.

13, 14. **Botanique.** Dalbis, Anatomie et physiologie végétales.

13a, 14a. **Botany.** Division of Sciences. Comparison of living and non-living beings; differences between animals and plants, plants and minerals. Classification of plants. Cells, tissues, seeds, roots, stems (primary and secondary growth). Buds, leaves, flowers, fruits. Types of Cryptogams. Two hours a week. Text book: Andrews, Practical Course in Botany.

15, 16. **Laboratoire, Botanique Générale.** Deux heures par semaine. Dalbis, Exercices pratiques de Botanique.

15a, 16a. **Laboratory Course in General Botany.** Two hours a week. Pepoon, Studies in Plant Life.

18. Astronomie. La terre et ses mouvements, le soleil, la lune, les planètes, les comètes, les étoiles, les nébuleuses, coordonnées célestes, hypothèses cosmogoniques. Deux heures par semaine. Auteur: Moreux, Cosmographie.

18a. Astronomy. The earth and its motions, the sun, the moon, the planets, comets, stars and nebulae, celestial co-ordinates, cosmogonic hypotheses. Two hours a week. Text book: Young, Elements of Astronomy.

Troisième et Quatrième Années, Arts: Philosophie latine (élèves de langue française): Cours 1, 2; 3, 4; 4a; 5, 6; 7, 8; 9, 10; 11, 12; 13, 14; 15, 16; 18.

Third and Fourth Year, Arts: Latin Philosophy (English-speaking students): Courses 1, 2; 3a; 4b; 5a, 6a; 7a, 8a; 9a, 10a; 11a, 12a; 13a, 14a, 15a, 16a; 18a.

1932-33 et tous les deux ans alternativement.

1932-33 and every alternate year.

1, 2. Philosophia Moralis. Premier terme, First term: Generalia Morum Principia, Actus Humani, Lex Naturalis, Hominis Officia et Jura, Jus Proprietatis, Societas Domestica. Second terme, Second term: Auctoritas, Societas Civilis. Neuf heures par semaine, Nine hours a week.

3, 4. Lacordaire, Economie providentielle de la Réparation. Félix, Le Progrès par la Famille. Une heure par semaine.

3a, 4a. Rickaby, Ethics, Natural Law, the Family, the State. Husslein, Social Problems. One hour a week.

5, 6. Education Religieuse. M. Meschler, Principes d'Education Religieuse (Lethielloux, Paris). Deux heures par semaine.

5a, 6a. Religious Education. J. L. Spalding, Religion, Agnosticism and Education (Chicago). Two hours a week.

7, 8. Vallet, Histoire de la Philosophie, pages 415-546. Premier terme: Philosophie Moderne, 17e siècle. Second terme: 18e et 19e siècle. Une heure par semaine.

7a, 8a. Turner, History of Philosophy, pages 324-660. First term: Third period of Scholastic Philosophy. Modern Philosophy to Kant. Second term: From Kant to our time. One hour a week.

9, 10. Fallon, Economie Sociale. Production, Echange, Répartition, Consommation. Second terme: Cathrein, Le Socialisme, sa nature, ses vices radicaux. Une heure par semaine.

9a, 10a. Burke, Political Economy. Production, Exchange, Money, Banking, Trade, Consumption. Second term: Cathrein-Gettelmann, Socialism, its Nature, Development, Fundamental Tenets, Impracticability. One hour a week.

11, 12. Chimie. Principes élémentaires: éléments et composés; lois des combinaisons; atomes et molécules; acides, bases, sels; propriétés des éléments les plus connus et de leurs principaux composés; principes de l'analyse chimique des sels; introduction à la chimie organique. Quatre heures par semaine. Auteurs: Bazin, Chimie Générale.

11a, 12a. Chemistry. Fundamental principles of Chemistry; elements and compounds; laws of combination; atoms and molecules; acids, bases, salts; introduction to organic chemistry. Four hours a week. Text book: McPherson and Henderson, Henderson and Parker, An Introduction to Analytical Chemistry.

13, 14. Manipulations Chimiques. Expériences illustrant les principes étudiés pendant les cours. Trois heures par semaine.

13a, 14a. Practical Chemistry. Experiments illustrating general principles and the preparation and properties of substances studied in lectures. Three hours a week.

15. Zoologie. Dalbis, Anatomie et Physiologie animales. Deux heures par semaine.

15a. Zoology. Hegner, College Zoology. Two hours a week.

17. Manipulations Biologiques. Série d'expériences illustrant la théorie avec une introduction aux méthodes zoologiques. Deux heures par semaine. Auteur: Chaine.

17a. Practical Zoology. A course of Laboratory work to accompany the foregoing, providing an introduction to zoological methods. Two hours a week. Text book: Marshall, The Frog.

18. Anatomie et Physiologie Humaines. Squelette, Os, Tissus, Respiration, Nutrition, Digestion, Circulation, Excrétion, Système nerveux et Organes des sens. Deux heures par semaine.

18a. Human Anatomy and Physiology. Skeleton, Bones, Tissues, Respiration, Nutrition, Digestion, Circulation, Excretion, Nervous System and Sense-organs. Two hours a week.

Troisième et Quatrième Années, Arts: Philosophie Latine (élèves de langue française): Cours 1, 2; 3, 4; 5, 6; 7, 8; 9, 10; 11, 12; 13, 14; 15; 17, 18.

Third and Fourth Years, Arts: Latin Philosophy (English-speaking students): Courses 1, 2; 3a, 4a; 5a, 6a; 7a, 8a; 9a, 10a; 11a, 12a; 13a, 14a; 15a; 17a; 18a.

Students in St. Boniface College proceeding to the Course in Latin Philosophy will take the following course in the First and Second Years.

DEUXIÈME ANNÉE

(Pour les élèves de langue française. Tous les sujets sont obligatoires; n'y a pas de sujets facultatifs.)

Français

Composition et Préceptes Littéraires. Rédaction au cours de chaque terme de quatre compositions formant un total minimum de 2,000 mots.

Préceptes—premier terme. L'art dramatique; historique du drame; la tragédie grecque, son évolution; la tragédie cornélienne; le système dramatique de Shakespeare; les prétentions du théâtre de Voltaire; 1

conception romantique d'après Hernani et Ruy Blas; le drame moderne; Bornier, *Le Fille de Roland*; Rostand, *L'Aiglon*; Coppée, *Pour la Couronne*; le renouveau du théâtre chrétien; Ghéon, *Les Trois Sages du vieux Wang*.

Manuels et livres de références. Verest, *Manuel de littérature*; Faguet, *Drame ancien, drame moderne*; Lemaître, *Impressions de théâtre*; Brunetière, *Les Epoque du théâtre français*. Notes du professeur.

Préceptes—deuxième terme. L'éloquence. Formation de l'orateur; dialectique oratoire; pathétique et traité des passions; tempéraments oratoires; structure du discours; le débit, diction et action; l'âme dans la voix et dans le geste; étude de l'appareil expressif; genres oratoires; éloquence sacrée; éloquence profane, politique, judiciaire, d'apparat.

Manuels et livres de références. Longhaye, *Théorie des Belles-Lettres*; Verest, *Manuel de littérature*; Legouvé, *La lecture en action*; Damien, *Le geste*; Dion, *Poétique et Rhétorique*; Rondelet, *L'art de parler*; Monsabré, *La prédication*.

Histoire de la Littérature et Auteurs Français. Premier terme Bourdaloue, Bossuet, Massillon, D'Alembert, Diderot, Marivaux, Beaumarchais, Fontenelle, Lesage, Vauvenargues, Montesquieu, Voltaire, Buffon, Jean-Jacques Rousseau, Joseph de Maistre, Madame de Staël, Chateaubriand. Extraits et analyses des auteurs ci-devant mentionnés.

Deuxième terme. Le mouvement romantique: Hugo, Musset, George Sand, Stendhal, Balzac, Thierry, Michelet. Le Naturalisme: Leconte de Lisle, Sully Prud'homme, Coppée, Augier, Dumas (fils), Flaubert, Renan, Taine, Sainte-Beuve, Veuillot, Verlaine, Mallarmé. Les Contemporains: Brunetière, France, Faguet, Bourget, de Vogué, Lemaître, Barrès, Bordeaux, Bazin, Benjamin, Brieux. Extraits et analyses des auteurs ci-devant mentionnés.

Manuels et livres de références: Faivre, *Histoire de la littérature et analyse des auteurs*; Mouchard, *Histoire de la littérature*; Lanson, *Histoire de la littérature*; Calvet, *Histoire illustrée de la littérature*; Desgranges, *Histoire illustrée de la littérature*; Strowski, *Tableau de la littérature française au XIXe siècle*; Doumic, *Tableau de la littérature*. Procès, tômes II, III, IV, *Morceaux choisis*; Calvet, *Morceaux choisis*; Desgranges, *Auteurs français*; Vianey, *Explication française*; Voltaire, *Oeuvres choisies* (Flandrin); Montesquieu, *Oeuvres choisies* (Roustan); Rousseau, *Oeuvres choisies* (Marnet); Balzac, *Oeuvres choisies* (Merlant); Chateaubriand, *Oeuvres choisies* (Florisoone).

Lectures: Outre les ouvrages déjà mentionnés les élèves devront lire les livres suivants, et en rédiger une appréciation: Baumann, Bossuet; Souvestre, *Un philosophe sous les toits*; Valsayre, O'Connell; Lecigne, Joseph de Maistre, Louis Veuillot; Musset, Fantasio; Rostand, *Cyrano de Bergerac*, *L'Aiglon*; Bazin, *La Barrière*; Bordeaux, *La peur de vivre*; Barrès, Colette Baudoche.

Latin

Thèmes latins et Versions. Mouchard, *Thèmes latins*. Aussi, thèmes rédigés d'après les auteurs latins au programme. Ragon, *Cent-vingt versions latines*.

Auteurs. Premier terme—Cicéron, *Pro Archia*. Horace, *Epitres*. Second terme: Cicéron, *Pro Milone*; Horace, *Satires*.

Grec

Thèmes grecs et Versions. Ragon, Thèmes grecs. Aussi, Thèmes rédigés d'après les auteurs grecs au programme. Ragon, Deux cent versions grecques.

Auteurs. Premier terme—Démosthène, Ière Philippique, Sophocle Oedipe-Roi, Ière partie. Second terme—Démosthène, IIIème Philippique, Sophocle, Oedipe-Roi, IIe partie.

*Anglais**1931-1932 et tous les deux ans alternativement*

Composition anglaise. Premier terme: Memory work, exercises in vocabulary, translation. Text: Gibb-Roulier-Stryienski, Cours de thèmes anglais (Didier). The sentence, the paragraph, narration; precepts, imitation work and analysis of models. Text: Model English I, Donnelly (Allyn & Bacon).

Second terme: Memory work, exercises in vocabulary and pronunciation, exercises in translation. Text: Gibb-Roulier-Stryienski, Cours de thèmes anglais (Didier). Description and essay; precepts; imitation and analysis of models. Text: Donnelly, Model English I.

Histoire de la littérature et auteurs. Premier terme: The Nineteenth Century; The Age of Romanticism; The Victorian Period; Keats, Shelley, Byron, Coleridge, Scott, Lamb, Southey, Wordsworth, Moore, Mrs. Browning, Rossetti, Browning, Lingard, De Quincey, Faber. Text: Handbook of Literature, Jenkins (John Murphy, New York). References: Long, English Literature; Sherman, English Literature (American Book Co.).

Authors. Keats, Ode on a Grecian Urn, To Autumn; Shelley, The Cloud; Byron, Apostrophe to the Ocean, Saint-Peter at Rome; Coleridge, Selections from the Ancient Mariner and Kubla Khan; Scott, Ivanhoe; Lamb, Tales from Shakespeare; Southey, The Inchcape Rock; Wordsworth, The Virgin, The Daffodils. Short selections from the other authors studied. Detailed study of the following: Goldsmith, The Deserted Village, The Traveller, The Good-Natured Man, She Stoops to Conquer.

Second terme: Thackeray, Wiseman, Dickens, Eliot, Carlyle, Arnold, Tennyson, Patmore, Francis Thompson, Swinburne, Newman, Manning, Stevenson, Ruskin, Meredith, Hardy, Barrie, Chesterton, Kipling; also Franklin, Poe, Bryant, Longfellow, Whittier, Cooper, Webster, Irving, Hawthorne, Holmes.

Authors—Wiseman, Fabiola; Dickens, Oliver Twist; Tennyson, Crossing the Bar, The Bugle Song, Next of Kin, The Summer is ended; Patmore, The Toys; Thompson, Ex Ore Infantium, Daisy; Newman, Selections; Stevenson, Treasure Island, Dr. Jekyll and Mr. Hyde; Poe, The Haunted Palace, The Raven; Longfellow, The Psalm of Life; Cooper, The Last of the Mohicans; Irving, The Sketch Book. Detailed study of the following: Newman, Second Spring and selections (Merrill, New York); Eliot, Silas Marner.

N.B.—Tout l'enseignement se donne dans la langue anglaise et les élèves sont tenus de ne se servir que de cette langue en classe. Une importance primordiale est attachée à l'accentuation et à la pureté de la prononciation dans les lectures à haute voix et les répétitions.

*Anglais**1932-1933 et tous les deux ans alternativement*

Les détails de ce cours seront publiés dans l'annuaire prochain.

*Histoire**1931-1932 et tous les deux ans alternativement*

Histoire du Canada. Premier terme: Découverte de l'Amérique; domination française. Second terme: Domination anglaise; histoire politique, militaire et religieuse.

Manuels et livres de références: Rutché et Forget, Précis d'histoire du Canada; Desrosiers et Bertrand, Histoire du Canada; Hopkins, Histoire populaire du Canada (traduction de Benjamin Sulte); Ferland, Histoire du Canada; Groulx, La Naissance d'une race, Lendemain de conquête, Vers l'Emancipation; Chapais, Cours d'histoire du Canada (3 vols.); Collections, "The Makers of Canada," "Canada and its Provinces."

*Histoire**1932-1933 et tous les deux ans alternativement*

Les détails de ce cours seront publiés dans l'annuaire prochain.

*Mathématiques**1931-1932 et tous les deux ans alternativement*

Wilson and Warren, College Algebra; Crawley and Evans, Analytical Geometry. Voir cours 1, 2; 3, 4; page 79.

1932-1933 et tous les deux ans alternativement

Practical Trigonometry: Playne and Fawdry.

PREMIÈRE ANNÉE

(Pour les élèves de langue française. Tous les sujets sont obligatoires; il n'y a pas de sujets facultatifs.)

Français

Composition et Préceptes Littéraires. Rédaction au cours de chaque terme de quatre compositions formant un total minimum de 2000 mots.

Préceptes—Premier terme. L'art de la composition; l'invention; la stérilité littéraire; les topiques; la disposition; notions d'ordre et de choix; la description; généralités; observation directe et indirecte, sa place dans une oeuvre; modèles: Homère, Châteaubriand, Lafontaine, Hugo, Flaubert, Leconte de Lisle, La Bruyère; La narration; généralité; genres; Vraisemblance dans l'ensemble et dans le détail; l'art de la narration chez Lafontaine, sa supériorité sur Esopé et Phèdre; La vérité des caractères; grandes lois; procédés des grands maîtres. Etude des narrations suivantes: Daudet, Le mauvais zouave, L'enfant espion; La chèvre de Monsieur Séguin, Les petits pâtés, La vision du juge de Colmar; Maupassant, Une vendetta, L'aventure de Walter Schnaffs, La parure, La ficelle, En mer, Le Loup, Les prisonniers; Bazin, Le départ d'André Lumineau (La terre qui meurt); Feuillet, La Barque (Histoire de Sibylle); Voltaire, L'art de se choisir un ministre (Zadig); F. M. Victorin, Peuple sans histoire; Mme. J. Lavergne, Pierrot fugitif. La dissertation; étude d'un extrait de L. Veuillot dans Ça et Là. La critique; l'évolution de la critique littéraire; le bon goût; les classiques; règles pratiques de critique littéraire. Notion de psychologie littéraire; analyse des facultés mentales, de l'émotion esthétique; le rire. La parole et le livre.

Manuels et livres de références: Verest, Manuel de littérature; Longhay, Théorie des Belles-Lettres; Vincent, Théorie de la composition littéraire; Lanson, Conseils sur l'art d'écrire; Albalat, L'art d'écrire en 20 leçons, Le travail du style, La formation du style; Roustau, La narration. Notes du professeur.

Préceptes—Deuxième terme: les genres littéraires et leur évolution; la lettre; analyse des modèles—Veuillot, De Maistre, Mme. de Sévigné; genre didactique; littérature scientifique et historique. Notion d'esthétique; les Beaux-Arts; la poésie et son objet; poésie épique; le roman; poésie lyrique; les âges lyriques; l'ode et l'élégie moderne avec Chénier, Hugo, Lamartine, Musset, Vigny.

Manuels et livres de références: Verest, Manuel de littérature; Longhay, Théorie des Belles-Lettres; Lacouture, L'esthétique fondamentale; Vincent, Les genres littéraires; Lammenais, De l'art et du beau.

Histoire de la Littérature et Auteurs Français. Premier terme. Origine et premiers développements de la langue française; le Moyen âge; chansons de geste, la Chanson de Roland; romans allégoriques; fabliaux; poésie dramatique; poésie lyrique; l'histoire, Villehardouin, Joinville, Froissart, Commines; la Renaissance, Marot, Ronsard et la Pléiade, du Bellay; le théâtre; Jodelle et Garnier; Rabelais, Saint François de Sales, Montaigne; la Satire Ménippé; Rénier et Malherbe. Extraits et analyses des auteurs ci-devant mentionnés.

Deuxième terme: Le XVII^e siècle, D'Urfé, L'Hôtel de Rambouillet, L'Académie française, Port-Royal, Descartes, Balzac, Voiture, Madeleine de Scudéry, Rotrou, Corneille, Racine, Molière, La Fontaine, Boileau, Pascal, La Rochefoucauld, La Bruyère, Fénelon; la querelle des Anciens, et des Modernes; le romantisme en poésie, Chénier, Lamartine, Vigny, Musset, Hugo. Extraits et analyses des auteurs ci-devant mentionnés.

Manuels et livres de références; Faivre, Histoire de la littérature et analyses des auteurs; Mouchard, Histoire de la littérature; Lanson, Histoire de la littérature; Des Granges, Histoire illustrée de la littérature; Calvet, Histoire de la littérature; Parvillez et Moncarey, La littérature française; Faguet, XVI^e siècle, XVII^e siècle; Doumic, Histoire de la littérature; Procès, Morceaux choisis, tome III; Des Granges, La littérature française (Analyses); Morceaux choisis: Oeuvres choisies de Corneille (Rocheblave); Oeuvres choisies de Racine (Fourcassé); Oeuvres choisies de Molière (Des Granges); Oeuvres choisies de La Bruyère (Cayrou); Oeuvres choisies de La Fontaine (Le Bidois); Oeuvres choisies de Boileau (Gérúzez).

N.B. Les élèves devront, en plus des extraits et pièces analysés en classe, lire les grandes pièces classiques du XVII^e siècle et en rédiger une appréciation.

Latin

Grammaire et Thèmes latins. Revue générale de la grammaire latine. Ragon, Exercices latins sur la syntaxe. Mouchard, Thèmes latins. Thèmes rédigés d'après les auteurs latins au programme. Ragon cent vingt versions latins.

Auteurs. Premier terme—Cicéron, De Senectute; Virgile, Enéide, chant VI^e, première moitié. Second terme—Virgile, Enéide, Chant VI^e, seconde moitié; Cicéron, Pro Marcello; Horace, Odes choisies.

Grec

Grammaire et Thèmes grecs. Revue de la morphologie et de la syntaxe. Ragon, Thèmes sur la syntaxe. Thèmes rédigés d'après les auteurs grecs au programme. Rayon, Deux cents versions grecques.

Auteurs. Premier terme—Platon, Criton; Homère, Iliade, Chant VIe, 1ère partie. Second terme—Homère, Iliade, Chant VIe, 2e partie; Démosthène, IIe Olynthienne.

Anglais

(Voir le programme de la deuxième année.)

Histoire

(Voir le programme de la deuxième année.)

Mathématiques

(Voir le programme de la deuxième année.)

FIRST AND SECOND YEARS

(*For English-speaking students. All the subjects are required; none are optional.*)

The outline of the subjects of the First and Second Years in Arts in the Latin Philosophy Course, for English-speaking students, is for the present withdrawn from publication, but will be prepared and issued for the session 1931-1932 if any students are admitted to classes in these subjects by St. Boniface College.

CURRICULA IN PHARMACY

DIPLOMA IN PHARMACY

The University of Manitoba entered into an arrangement with the Pharmaceutical Association of Manitoba in 1914 whereby the work of instruction in Pharmacy of students desiring to qualify as licensed Pharmaceutical Chemists in Manitoba (formerly carried on by the Association in its own college, known as the Manitoba College of Pharmacy) was undertaken by the University. The Association continues to prescribe the preliminary educational qualifications, the conditions of apprenticeship and practical training, admission fees, etc., and issues the license, the University being responsible only for the work of instruction and examination. Similarly, the Association determines the value of all professional certificates or other like credentials from other associations or institutions, and reports to the University the credit to be given in the course for the Diploma in Pharmacy. An applicant for registration as a Certified Apprentice shall produce evidence that he has passed the Matriculation Examination for Arts or Science of the University of Manitoba or an examination reasonable equivalent thereto clear of all conditions. Intending students must have the period of apprenticeship certified on special forms obtainable on request from the Registrar of the Pharmaceutical Association, and these certificates are to be returned to him not later than August 15th of the year in which the student intends to enter the University course in Pharmacy. A certificate from the registrar of the Pharmaceutical Association to the effect that the Association's requirements with respect to preliminary education, apprenticeship, etc., have been met must be presented to the Registrar of the University at the time of registration or in advance.

The course covers two academic years, as follows:

First Year

Course Nos.	Page	SUBJECT	Fall Term		Spring Term	
			Lecture hours per week	Lab. hours per week	Lecture hours per week	Lab. hours per week
1, 2; 3, 4	50	Chemistry.....	3	3	3	3
1, 2; 3; 5, 6	113	Pharmacy.....	5	4	3	4
7, 8; 9, 10	113	Materia Medica.....	3	2	2	2
11, 12	113	Prescriptions.....	2	..	2	..
1, 2; 3, 4	47	Botany.....	2	2	2	2
10	70	Mineralogy.....	..	..	2	..

Second Year

13, 14; 15, 16	113	Pharmaceutical Chemistry.....	4	6	4	6
17, 18; 19, 20	114	Materia Medica.....	2	3	2	3
1, 2; 3, 4	87	Physics.....	3	2	3	2
5a, 6a	113	Pharmacy.....	..	4	..	4

Owing to the limited laboratory space available for the work of the department of Pharmacy, it will be necessary to restrict the registration in the First year of the Diploma Course for the session 1931-1932 to at most twenty-four students. Applications will be received up to August 1st and should be on a form provided by the Registrar of the University, obtainable on request.

The following excerpts from the "Manitoba Pharmaceutical Act" touching the matters of preliminary educational qualification, conditions of apprenticeship, etc., are appended:

THE PHARMACEUTICAL ACT

(4 Geo. V., Cap. 78, 1914)

* * * * *

15. Before any candidate shall be entitled to be registered as a certified apprentice he shall:

- (a) produce to the council satisfactory evidence of a good moral character;
- (b) pass such examination or examinations as the council shall have prescribed or shall prescribe, or produce to the council satisfactory evidence of requisite knowledge.

16. Before any candidate shall be entitled to be registered as a certified clerk he shall:

(a) produce to the council satisfactory evidence that he has actually served as a certified apprentice for at least two years to a licensed pharmaceutical chemist who has during such period been engaged in actual practice as a compounder of physicians' prescriptions;

(b) pass such examination (to be called the "minor examination") as the council shall have prescribed or shall prescribe, or produce to the council other satisfactory evidence of requisite knowledge and experience.

(2) No person shall be competent to be registered as a certified clerk unless he shall have attained the age of at least eighteen years.

17. Before any candidate shall be entitled to be registered as a licentiate pharmaceutical chemist he shall:

(a) produce to the council satisfactory evidence that he has served at least two years as a certified clerk or at least four years as a certified apprentice to a licensed pharmaceutical chemist who has been during such periods respectively in actual practice as a compounder of physicians' prescriptions, and has attended such course of instruction as the council shall prescribe; time spent in attendance on a regular course of lectures and instruction in any college or school of pharmacy recognized and approved by the council shall be considered part of such periods of service respectively;

(b) produce to the council satisfactory evidence that he has passed the minor examination;

(c) pass such examination (to be called the "major examination") as the council shall have prescribed, or shall prescribe, or produce to the council other satisfactory evidence of requisite knowledge and experience.

(2) No person shall be registered as a pharmaceutical chemist who has not attained the age of twenty-one years.

19. The council may in its discretion accept the diploma or other authenticated certificate of examination of any other competent examining board out of the Province of Manitoba, or of the University of Manitoba, as sufficient evidence of qualification of any applicants to be registered under this Act as certified apprentice, certified clerk or pharmaceutical chemist respectively.

DEGREE IN PHARMACY

BACHELOR OF SCIENCE IN PHARMACY

The University of Manitoba confers the degree of Bachelor of Science in Pharmacy. The following are the requisites for proceeding in course to this degree.

Matriculation

The requirements for Matriculation are the same as for Matriculation for Arts or Science.

First Year

Course Nos.	Page	SUBJECT	Fall Term		Spring Term	
			Lecture hours per week	Lab. hours per week	Lecture hours per week	Lab. hours per week
1, 2	English.....	4	..	4	..
1, 2; 3, 4	Mathematics.....	6	..	6	..
1, 2; 3, 4	Physics.....	3	2	3	2
3, 4; 5, 6	Chemistry.....	2	3	2	3
1, 2; 3, 4	French.....	3	..	3	..
		or				
1, 2 or 5, 6, 7, 8	German.....	3	..	3	..

Second Year*

15, 16; 7, 8	....	Chemistry.....	2	6	2	6
10	....	Mineralogy.....	..	..	2	..
1, 2; 3, 4	....	Botany.....	2	2	2	2
1, 2; 3; 5, 6	....	Pharmacy.....	5	4	3	4
7, 8; 9, 10	....	Materia Medica.....	3	2	2	2
11, 12	....	Prescriptions.....	2	..	2	..

Third Year*

21, 22; 23, 24	....	Chemistry.....	2	3	2	3
9, 10; 11, 12	....	Zoology.....	3	3	3	3
13, 14; 15, 16	....	Pharmaceutical Chemistry.....	4	6	4	6
17, 18; 19, 20	....	Materia Medica.....	2	3	2	3
5a, 6a	....	Pharmacy.....	..	4	..	4

Fourth Year

21, 22; 23, 24	....	Pharmaceutical Chemistry.....	2.	6	2	6
25, 26; 27, 28	....	Phytochemistry.....	2	6	2	6
31, 32; 39, 40	....	Chemistry.....	2	6	2	6

*The same periods of apprenticeship, certified to by the Registrar of the Manitoba Pharmaceutical Association, are required for admission to the Second and Third Years of this course as are required for admission to the First and Second Years respectively of the Diploma Course. This requirement is imposed in conformity with the Pharmaceutical Association Act. (See page 111).

COURSES IN PHARMACY IN DETAIL

DEPARTMENT OF PHARMACY AND PHARMACEUTICAL CHEMISTRY

Henry E. Bletcher, B.Sc., F.C.I.C. *Professor*
 Dougald McDougall, M.Sc., F.C.I.C. *Assistant Professor*

N.B.—For key to system of numbering courses, see page 4.

1, 2. Pharmacy. First Term: An exposition of the principles on which pharmaceutical operations are based; the utilization of those processes for specific ends; the historical development of pharmacy. Second Term: An extended consideration of the galenical preparations of the British Pharmacopoeia; the comparison of other important national pharmacopoeias with the British Pharmacopoeia. Three hours a week. Text books and books of reference: British Pharmacopoeia, British Pharmaceutical Codex, Remington's Practice of Pharmacy.

3. The Arithmetic of Pharmacy. Two hours a week, first term.

5, 6. Practical Pharmacy. This course includes practice in the physical operations used in pharmacy such as determination of weight, volume, temperature, specific gravity, melting point, boiling point, etc.; the study of simple heat phenomena; simple heat processes; filtration, evaporation, crystallization, etc.; distillation; dispensing of classes of preparations commonly prescribed by physicians; dispensing of difficult prescriptions; care of apparatus; methods of work. Four hours a week.

5a, 6a. A continuation of course 5, 6.

7, 8. Materia Medica. The detailed study of organic drugs particularly those of the British Pharmacopoeia, the principal facts relating to their sources, preparation, identification, characteristics, purity, constituents and toxicology. The chief anatomical features and the main physiological processes of the animal body. The pharmacology of the more important drugs. Three hours a week. Greenish: *Materia Medica*; Mansfield: *Materia Medica and Pharmacognosy*.

9, 10. Practical Materia Medica. A laboratory course to accompany 7, 8. A number of drugs will be carefully studied by means of selected specimens showing the characteristics by which the drug is identified. The histological structure of medicinal plants; the study by means of the microscope of powdered drugs and the detection of impurities in them. Two hours a week.

11, 12. Prescriptions. This course includes the Latin of pharmacy, posology, prescription arithmetic, methods of compounding prescriptions, the recognition and treatment of incompatibilities, the Pharmaceutical Act and other legislation affecting the practice of pharmacy, and all other topics of the Diploma Course in Pharmacy not specifically classified elsewhere. Two hours a week. Muldoon, *Pharmaceutical Latin*; American Pocket Medical Dictionary.

13, 14. Pharmaceutical Chemistry. The application of chemistry to the preparation of medicinal and related substances both inorganic and

organic; methods of preparation; characters of pure products; tests. Four hours a week. Bentley and Driver, *Pharmaceutical Chemistry*; Sadtler-Coblentz-Hostmann: *Pharmaceutical and Medical Chemistry*; Macbeth: *Organic Chemistry*; texts and reference works of the departmental library.

15, 16. Practical Pharmaceutical Chemistry. A laboratory course to accompany 13, 14. Analytical methods. The preparation and purification of typical inorganic and organic chemical substances used as medicines. The manufacture of galenicals. The assay of selected preparations. The study of the more important groups of substances of biological chemical origin. The application of chemical methods in the evaluation of organic drugs. Six hours a week.

17, 18. Materia Medica. The study of the chemical nature of important classes of plant constituents, including among others the resins, oleoresins, fatty oils, carbohydrates, volatile oils, glucosides, alkaloids and tannins. The recognition of the natural orders of plants of most importance as sources of drugs. Pharmaceutical bacteriology. Biologics. Assigned reading. Reports. Two hours a week.

19, 20. Practical Materia Medica. A laboratory course to accompany 17, 18. Three hours a week.

21, 22. Pharmaceutical Chemistry. The preparation, characters and medicinal uses of important medicinal substances, especially certain alkaloids, glucosides, resins, synthetics and biologics. Topics relating to pharmaceutical research will be selected for investigation and report. Two hours a week, with assigned reading.

23, 24. Practical Pharmaceutical Chemistry. A laboratory course to accompany 21, 22. The identification of medicinal chemicals; detection of impurities; special methods for the determination of poisonous impurities. Determination of the identification values of fixed and volatile oils. A careful study and review of extraction and purification methods suitable for alkaloids, glucosides, and resins. The separation and identification of alkaloids in mixtures. Preparation of certain synthetics. Six hours a week.

25, 26. Phytochemistry, with special attention to the medicinal substances contained in plants. Two hours a week, with assigned reading and reports.

27, 28. Practical Phytochemistry. A laboratory course to accompany 25, 26. Six hours a week.

GENERAL REGULATIONS

REGISTRATION

Students who have been in attendance at the University in classes under the Faculty of Arts and Science or at an affiliated Arts College during the session 1930-1931, and who desire to register for class attendance during 1931-1932, are requested to do so at the Registrar's office during the period, April 15th to May 4th. This registration, which is made subject to such reasonable adjustments as may later be asked for up to the date of the opening of lectures in September, is provided to assist the Dean and the Faculties of the University and the affiliated Colleges in connection with the planning of the work of the new session. It has also the added advantage that it will thus early dispose of a great deal of routine that has hitherto caused much congestion in connection with registration at the opening of the fall term. No fees will be asked for at the time of the Spring registration, but a statement of the amount required will later be forwarded to the summer address of the student, who, on presenting himself in the fall, will merely need to make payment of his fees, the amount of which he already knows, and receive the class cards that have been prepared for him.

New students, whether entering with matriculation or with advanced standing, should present their applications for admission to the Registrar, either in person or by mail, not later than September 1st, and preferably as early as possible in the summer. Provision will be made for the formal registration of First Year students of the Junior Division in Arts and Science on September 18th, and their regular lectures will begin on September 21st. A penalty of \$2.00 will be imposed on any First Year student in Arts and Science who presents himself for registration later than September 19th.

Provision will be made on September 23rd for completion of enrollment and payment of fees or for initial registration (where necessary) with payment of fees by students of the Second Year of the Junior Division in Arts and Science. Regular lectures for these classes will open on September 24th. On and after this date too, a penalty of \$2.00 will be imposed upon those who present themselves to complete enrollment, pay fees and enter classes.

Students of the Senior Division in Arts and Science will complete enrollment on September 26th, and lectures will open on September 28th. On and after this date a penalty of \$2.00 will be imposed upon those who present themselves to complete enrollment, pay fees, and enter classes.

No registration in Arts and Science will be accepted after Monday, October 5th, unless the Board of Studies on investigation finds that a special concession is warranted.

Registration in the Diploma Course in Pharmacy takes place on September 17th and lectures begin on September 18th.

The dates for the registration of extra-mural students are the same as those for students in attendance, and the same regulations apply, except that extra-mural students are not required to register in person, but may do so by mail.

Special students may be registered whose applications have been approved by the Dean of the Faculty concerned and the Board of Studies Committee on Students' Courses.

EXAMINATIONS

General Regulations

1. The regular examinations for undergraduates in Arts, Science and Pharmacy are given in part in December and in part in April of each academic year. For definite information as to the work upon which each of these sets of examinations is based, the student is referred to the curricula as set forth elsewhere in this Calendar.

2. Examinations in Arts and Science may be held at such outside centres in Manitoba, Saskatchewan, Alberta and British Columbia, as the Board of Studies may from time to time approve, it being understood that this does not apply to practical or oral examinations, where such are required.

Matriculation Examinations

Examinations for Matriculation are conducted by the Examination Board of Manitoba (a joint committee of the University Council and the Advisory Board of the Department of Education of Manitoba, appointed to administer the examinations for promotion in and from the secondary schools of the province). They are held twice in each year, in the months of June and September and Supplemental Examinations are given under certain conditions in December. The September Examination is ordinarily limited to subjects of Grade XI and is intended mainly for those who desire to qualify immediately to enter upon University Courses. For fuller information regarding the regulations governing the Matriculation Examinations, consult the Matriculation Calendar.

CREDIT FOR TERM WORK

1. At the close of each term the instructors in Arts and Science in the University and the affiliated colleges may make a report on the work of each student for the term just closing in the form of an award of marks to be based upon the results of recitations, reports, essays, papers or interim examinations, or a combination of any number or of all of these tests as indicating the character of the work throughout the term. The maximum credit allowed for term work in such a report shall be 20 per cent. of the total marks allowed for the subject or portion of the subject in question.

2. On the acceptance of the report of the instructor, the marks given for term work are added to the marks obtained at the written examination in the subject (for which the minimum shall be 80 per cent. of the total marks allowed for the subject or portion of the subject in question), and this total shall determine the standing of the student.

3. In case the instructor submits no report, or his report is not accepted by the Board of Studies for any reason, the standing of the student is determined entirely by the final written examination, which will be valued on the basis of the total marks allowed for the subject or portion of the subject in question.

4. In any case, the award of scholarships and medals in Arts and Science is made entirely on the results of the final written and practical examinations.

FAILURES AND SUPPLEMENTALS

1. When the work in a subject is divided into parts such as the theoretical part and the laboratory part in a science subject or the grammar and prose part and the authors part in a language subject, final credit towards standing for a degree will not be given for any such part or parts of a subject until all have been completed and passed to the satisfaction of the examiners. Provisional credit will not, in the meantime, count towards determining eligibility to proceed with further work.

2. If a student fails to pass in any subject or part of a subject but secures 35 per cent. or over he will have the privilege of repeating the examination in that subject or part of a subject in which he has failed without attendance but if he obtains less than 35 per cent. he must repeat the class work of that subject or part of a subject in attendance either during a regular session or at a Summer School or under approved tuition, before he is accorded another examination. He should, moreover, secure definite approval of his proposed arrangement for tuition before it is entered upon.

(a) In the case of students failing on First Term papers in December, and falling below 35%, the requirement of additional tuition will be waived, where the student continues under instruction in the same subject taking the Second Term course, or as an extramural student proceeds with the subject and applies for April examination in the work of both terms.

(b) In the case of students failing on First Term or Second Term papers in April and falling below 35% they are advised, first of all, to take the Summer School instruction in the courses in which they have failed, where it is offered. In cases where they plead inability to attend the Summer School, or in cases where the Summer School program does not provide instruction in the subject in which they are deficient, they are required to apply by the opening date of the Summer School period of instruction for approval of a scheme of instruction, in the arrangements for which the Registrar's office will co-operate. Further details will be supplied on request.

3. A regular student who obtains less than 8 units of credit at the examinations of any session including the succeeding Summer School will not be permitted to continue his studies at the University nor be registered for University examinations during the next academic session.

4. A student in Arts and Science who has not, prior to the opening of the session, completed 36 units of credit, will be regarded as belonging to the Junior Division. A student in Arts and Science who has, prior to the opening of the session, completed at least 36 units of credit, shall be regarded as belonging to the Senior Division. Such a student, who has already completed 40 units of credit in the Junior Division, may elect to proceed in either the Senior Pass Division or the Senior Honors Division.

5. A student may not enter the Senior Honors Division unless he has completed 40 units of work in the Junior Division. He may not continue in the Senior Honors Division longer than one annual session unless he has at the close of that session—

(1) Obtained 16 units of credit in the Division.

(2) Attained a grade of at least 67 per cent. on each of two subjects (representing 8 units of credit) which subjects he proposes to elect in connection with his further work in that Division.

A student may transfer from the Senior Pass Division to the Senior Honors Division at the close of one annual session in that Division provided he has—

- (1) Completed 40 units of work in the Junior Division.
- (2) Completed 16 units of work in the Senior Division.
- (3) Attained a grade of at least 67 per cent. on each of two subjects of the Senior Division (representing 8 units of credit) while in the Senior Division; in the subject he will be permitted to elect in connection with further work in the Senior Honors Division.

6. Students are permitted to group themselves into classes or years within the Divisions for purposes of social life, athletics, etc.

7. The pass mark in all undergraduate subjects in Arts and Sciences is 50 per cent., both for extra-mural and intra-mural students.

8. (a) The pass mark in all professional subjects in Pharmacy is 60 per cent; in the remaining subjects of the course 50 per cent. When taken in all subjects the pass mark for all professional subjects is 70 per cent.

(b) A student failing on a professional subject of the course in Pharmacy with a mark below 40 per cent or on a non-professional subject with a mark below 35 per cent, will be required to repeat the lectures and laboratory work of the course in a subsequent session or Summer School. In the case of all failures in Pharmacy, where the required supplemental examination is not passed within the year next ensuing, the same requirement of repetition of lectures and laboratory work will be made.

(c) A mark of 60 per cent is required to obtain credit in any non-professional subject on transference from another course to the Degree or Diploma Course in Pharmacy.

(d) A student of the First Year of the Diploma Course who fails to obtain 60 per cent of the total maximum marks at the December examination, or who having obtained 60 per cent of the total maximum marks fails in more than one subject, loses his standing and must repeat the work of the term.

(e) A student of the Second Year of the Diploma Course who fails to obtain 60 per cent of the total maximum marks at the December examination, or who having obtained 60 per cent of the total maximum marks fails in more than one subject, loses his standing and must write on all the subjects of the examination again.

(f) A student of the First Year of the Diploma Course, who, at the close of the April examination, has not more than two conditions against him, is granted standing for the year with supplementals, provided his aggregate is at least 60 per cent of the total maximum marks assigned in all the subjects of his course.

(g) No student will be allowed to register for the Second Year of the Diploma Course who has a condition of the First Year registered against him.

(h) A student of the Second Year of the Diploma Course, who, at the close of the April examination, has not more than one condition against him, is granted standing for the year with a supplemental, provided his aggregate is at least 60 per cent of the total maximum marks assigned in his course.

(i) A student who has failed at any examination may be required, at the discretion of the Dean of the Faculty and the instructors in the subject, to repeat his attendance before again writing on an examination.

(j) The University reserves the right to terminate the connection of any student with the course in Pharmacy at any time for what it deems either mental, moral, or physical unfitness for professional work.

(k) Absence from lectures and laboratory periods will not be permitted except for reasons satisfactory to the instructors.

(l) Diplomas in Pharmacy are graded "Pass" or "With Honors." To secure the latter grade, the student must obtain at least 75 per cent of the aggregate marks allotted to the full programme of subjects of the Second or Final Year of the course and must pass without condition in each paper at his first examination thereon.

9. The September Supplemental Examinations begin on or about the first Tuesday of the month. For them, as for all other supplemental and special examinations, application should be made at least thirty days in advance and on blank forms intended for the purpose, to be obtained from the Registrar.

10. The scale of fees for supplemental examinations is as follows:

A fee of \$3.00 for the first hour-and-a-half unit and a further fee of \$1.00 for each additional hour-and-a-half unit, whether of half or full papers, up to a maximum of \$8.00.

11. In all cases, students who are required to repeat a course of instruction or take a supplemental examination and who fail to present themselves for the same and pass at the Summer School or the September examination following the regular examination at which the original failure was made, must, when they present themselves for examination at a later date, accommodate themselves to any changes in the curriculum that may have been made in the meantime.

12. A condition in any subject in which the supplemental examination privilege has been earned may also be removed by writing upon the paper provided in the subject in question at any regular examination where such paper is examined. In such a case the supplemental examination fee is required from the candidate whether or not he has paid at the same time the regular examination fee. He should also make application therefor on a special form provided for such cases by the Registrar.

13. September Supplemental Examinations are held at the University, and also at such outside centres in Manitoba, Saskatchewan, Alberta and British Columbia as the Board of Studies may from time to time approve.

14. Candidates for any supplemental or special examination should at least thirty days before the date of the examination, make suitable application to the Registrar, from whom blank forms of application may be obtained. The required fee must accompany the application. The fee for a regular examination is payable (along with the tuition fee, if such is required) at the time of registration for class work.

EXTRA-MURAL STUDENTS IN ARTS

Extra-mural students in Arts, resident in the Province of Manitoba and possessing the requisite previous academic standing, will be accepted, subject to the approval of the Board of Studies, under the following general conditions:

1. No subject may be elected that involves oral or laboratory work.

2. Extra-mural students must register within the same time-limit as are prescribed for students in attendance and must conform to the same regulations and standards as are in force for intra-mural students save that term marks will not be exacted, except in the case of term essays in English, where such are required.

3. Extra-mural students must present themselves for examination at the time appointed for intra-mural students and either at Winnipeg or at one of the outside centres specially authorized by the Board of Studies for the purpose.

4. No student will be allowed to complete in full the requirements for the Bachelor of Arts degree extra-murally but a minimum of one year's attendance at this or another approved University will be exacted before the degree is conferred.

5. Every extra-mural candidate at any examination may be required to forward to the Registrar a certificate from some trustworthy person that he is of good moral character.

6. A student who has obtained at least a year's credit as an extra-mural student while resident in the Province of Manitoba or who has attended for at least a year as an intra-mural student at the University of Manitoba or an affiliated college, may, if, on removal from the province, he desires to continue his course extra-murally, have the privilege extended to him of so doing, provided that all the other requirements set forth above are complied with and that he has a minimum of one year's attendance at an approved University to his credit, before the degree of Bachelor of Arts is conferred.

7. No extra-mural student may, except by special permission of the Board of Studies, undertake more than twelve units of work during an annual session. It is, moreover, the desire and expectation of the University that extra-mural study will be combined, wherever possible, with Summer School attendance, and will lead eventually to attendance at the University during a regular session.

APPEALS

1. Any candidate is at liberty to enter an appeal, within three weeks after the publication of the examination results in the public press, against the standing assigned him by the examiners and to request a revision of the marking of one or more of his papers.

2. The fee for such revision is \$2.00 for each paper. This fee is payable at the time the appeal is made, and in case the revision takes place, is not returnable, whether the original marking is sustained or not. When the revision is not granted the fee is returnable.

3. There is no special form of application for such revision.

EQUIVALENT EXAMINATIONS

1. Provincial Department of Education examinations are accepted *pro tanto* by the University, insofar as the subjects and standing are, to the satisfaction of the Board of Studies, the same as, or equivalent to, those required by the University—but candidates offering certificates of having passed such examinations are required to pass in such subject or subjects not covered by their certificates, as may, in the opinion of the Board, be necessary for the completion of the examination, for partial standing towards which such certificates are presented.

2. (a) The following are accepted *pro tanto* for subjects of Parts I and II of Arts or Science Matriculation, or Parts I and II of Junior Matriculation for Medicine or Engineering:

- (1) Third Class Diploma, Saskatchewan, Alberta or British Columbia.
- (2) Entrance to Model Schools or Lower School Certificate, Ontario.

(b) The following are accepted *pro tanto* for subjects of Parts I, II and III of Arts or Science Matriculation or full Junior Matriculation for Medicine or Engineering:

- (1) Grade XI Teachers' Examination Certificate, Manitoba.
- (2) Second Class Diploma, Saskatchewan, Alberta or British Columbia.
- (3) Entrance to Normal Schools or Middle School Certificate, Ontario.

(c) The following are accepted *pro tanto* for subjects of the Junior Division in Arts and Science:

- (1) Grade XII Teachers' Examination Certificate, Manitoba.
- (2) First Class Diploma, Saskatchewan, Alberta or British Columbia with a maximum credit of twenty units.
- (3) Entrance to Faculties of Education Certificate, Ontario.

3. Provincial or Departmental Certificates for any other provinces of the Dominion are granted such *pro tanto* standing as the Board of Studies may from time to time recommend.

4. Candidates presenting *pro tanto* certificates must attempt to pass at one time in all the subjects necessary to the completion of the entire examination.

5. Holders of certificates of educational value, other than those above mentioned, receive such recognition as the Board of Studies may from time to time recommend.

Admission *Ad Eundem Statum* and *Ad Eundem Gradum*

Members of any other University in His Majesty's Dominions, or of any other University accredited by the University of Manitoba, who may apply for admission to this University, are not required to take the Entrance Examination of the Faculty to which they belong, but may be admitted *ad eundem statum* or *ad eundem gradum*, on presentation of their credentials and payment of the required fee.

ATTENDANCE ON LECTURES AND PRACTICAL WORK

All students, except those who have been duly registered as taking their work extra-murally, are expected to be regular in their attendance at lectures.

When the number of absences recorded against a student under the Faculty of Arts and Science in any course exceeds ten per cent. of the number of lectures given for the term in that course, the instructor shall report the case to the Dean, who shall lay it before the Committee on Attendance and Progress of Students. When a student's attendance continues unsatisfactory, the Committee with the concurrence of the instructor and of the Discipline Committee of the General Faculty Council has power to exclude such student from classes or examinations, or both. The number of absences is reckoned from the opening date of the term and not merely from the date of registration of the student. When after repeated warnings a student is found to be persistently negligent with respect to his work or fails for any other reason to make satisfactory progress, the instructor shall report his case to the Dean, who shall lay it before the Committee on Attendance and Progress of Students. When the student's work still continues unsatisfactory, the Committee with the concurrence of the instructor and the Discipline Committee of the General Faculty Council, has power to exclude such student from classes or examinations or both.*

All students in Arts registered in an affiliated College will be expected to comply with the regulations as to attendance and work made by the College and a statement from the Faculty of an affiliated college in which any such student is registered to the effect that his attendance or work has been unsatisfactory, will be sufficient to debar him from examination.

No student is allowed to present himself for examination in any laboratory or drafting-room subject, unless he has satisfactorily carried out and recorded the minimum of practical work in each such subject decided upon by his Faculty; the scheme of practical work to be announced at the beginning of each session. This regulation applies to all classes of students whether of Arts, Science, Engineering, Medicine or Pharmacy, doing practical work under the direction of the University Faculties.

ISBISTER SCHOLARSHIPS

Junior Division in Arts and Science

1. There are offered ten scholarships of \$60.00 each to the student ranking highest on the aggregate of an approved course of the value of twenty units selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the first year in the Division.
2. There are offered ten scholarships of \$60.00 each to the student ranking highest on the aggregate of an approved course of the value of

*A student who is debarred from University examinations in any subject or subject at the end of a term or session because of insufficient attendance or unsatisfactory work, is not allowed to take examination in the subject or subjects subsequently until he has fulfilled the ordinary attendance regulations with respect to such subject or subjects, as applied to new students during a succeeding term or session and has done satisfactory work therein.

twenty units, selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the Second Year in the Division.

The student must have clear Matriculation standing and must have taken the work within the regular session for which the scholarship is awarded. Work done in a previous session or at a Summer School may not be offered in competition for a scholarship. A minimum of 75 per cent on the aggregate of the twenty-unit course will be required.

Senior Division in Arts and Science

1. There are offered ten scholarships of \$80.00 each to the students ranking highest on the aggregate of an approved course of the value of sixteen units, covering four subjects, selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the first year in the Senior Division. The competition is open to students both of the Senior Pass and the Senior Honors Division. A minimum of 75 per cent. on the aggregate of the sixteen-unit course will be required.

2. There are offered ten scholarships of \$80.00 each for general competition among the students taking subjects normally elected in the Second Year of a student's work in the Senior Honors Division in Arts and the students taking subjects normally elected in the second year of a student's work in the Senior Honors Division in Science. A minimum of 75 per cent will be required in each of the subjects carried by the student.

Latin Philosophy

1. There is offered a scholarship of \$60.00 in the First Year in the Latin Philosophy Course for competition among French-speaking students.

2. There is offered a scholarship of \$60.00 in the Second Year in the Latin Philosophy Course for competition among French-speaking students.

3. A scholarship of \$80.00 is offered for competition in the Latin Philosophy Course of the Third Year in Arts.

A minimum of 75 per cent. on the aggregate of the examinations of the course on which the scholarship is awarded will be required.

Pharmacy

There is offered a scholarship of \$60.00 in the First Year of the course in Pharmacy. A minimum of 75 per cent. on the aggregate of the examinations of the course on which the scholarship is awarded will be required.

GENERAL CONDITIONS OF ELIGIBILITY TO RECEIVE ISBISTER SCHOLARSHIPS

1. A student is not qualified to receive a scholarship unless:

(a) He has been ranked above all competitors on the aggregate of the marks in the subject or subjects for which the scholarship is given, or, in cases where more than one scholarship is offered, is one of a group that has

been so ranked, or has become eligible through reversion. In all cases where general proficiency scholarships are awarded, not upon a fixed course but upon a course involving elective subjects, the practice has been adopted of raising the highest candidate in each subject to 100 per cent. and others likely to be in competition in proportion and of comparing competitors upon the basis of these raised percentages.

(b) And has removed at the same examination, or prior to it, a condition from a previous year or grade that may have been registered against him.

2. No student may hold more than one scholarship. If a student succeeds in otherwise qualifying for more than one scholarship in any year, he will be allowed to receive but one, and his name will be entered upon the list as having qualified for the other, though not entitled to any of the funds. If such other scholarship will be granted to the one ranking next to him provided he is otherwise eligible.

CONDITIONS GOVERNING THE PAYMENT OF ISBISTER SCHOLARSHIPS

The general conditions governing the payment of these scholarships are determined by the terms of the will under which the trust was established, from which the following is an excerpt:

"I desire it to be understood that I establish this trust for the benefit and improvement of education in the Province of Manitoba, and it is my wish that it shall take the form of a general scholarship or prize fund for the encouragement of meritorious students and scholars in the various places of education in the Province for both sexes, from the Common School to the Colleges and Institutions and Private Schools where the highest education is given without any distinction of race, creed, language or nationality. In the Lower Schools this encouragement may take the form of prizes, and in the Higher Schools that of scholarships of sufficient value to maintain or help to maintain the holder at College or University either in Canada, Great Britain or elsewhere, and I leave the Governing Body of the Manitoba University free to carry out the objects of the trusts now confided to them in the manner which to them may seem best."

The scholarships are paid during the course of the annual session following that at the examinations of which they were won, provided the winners are duly enrolled and regularly in attendance at the University or an affiliated college, upon the full work of the next succeeding year of the degree course they have begun, and payment is made upon the following plan: One moiety on the second Monday in November and one moiety on the second Monday in February, upon receipt by the Bursar of certification as to the award of the scholarship from the Registrar and as to compliance with the above requirements of registration and attendance from the Dean and the President in the case of students registered for instruction in the University, and from the Registrar of the University and the head of the College in question in the case of students registered for instruction in an affiliated college.

If, for any reason, the winner of a scholarship is not in attendance as an intra-mural student during the academic year next following that in which the scholarship is won, the scholarship will automatically be extended for another year.

If, for any reason, the winner of a scholarship is not in attendance during the two academic years next following that in which the scholarship is won, the scholarship will lapse.

The values stated for the scholarships are the maximum values which the scholarships will not exceed. If the funds do not allow of the scholarships being of such maximum value, then they shall be proportionately of such value as the funds will allow.

AIKINS SCHOLARSHIPS IN THE ENGLISH LANGUAGE AND LITERATURE

The late Sir James Aikins, a former Lieutenant-Governor of Manitoba, and for many years a member of the Council of the University and its Honorary Bursar, established in his lifetime a trust for the purpose of providing annually what are known as the Aikins Scholarships in the English Language and Literature. They are awarded to the students ranking first at the annual examinations in English I, English II and English III respectively, and have the same conditions attached as are attached to the Isbister Scholarships with respect to a minimum standing of 75 per cent in the subject, concurrent completion of a full course of study of the year in question and freedom from prior conditions. They are paid during the next succeeding annual session upon the same plan as that of the Isbister scholarships. The amounts have been fixed for the present at the following:

English I.....	\$ 75.00
English II.....	75.00
English III.....	125.00

KHAKI UNIVERSITY OF CANADA AND YOUNG MEN'S CHRISTIAN ASSOCIATION MEMORIAL BURSARIES

There are offered annually by the University of Manitoba fourteen bursaries known as the Khaki University and Young Men's Christian Association Memorial Bursaries. These scholarships involve a payment to the holder of \$50.00 and remission of tuition fees to the extent of full remission to students in Arts or Science and half remission to students in professional courses. These bursaries are considered as tenable along with other University Scholarships.

The award is made by the University Council on the recommendation of a Committee of Selection to be appointed by that Council.

In choosing the holders of bursaries consideration is given not only to literary and scholastic attainments, but also to personal character, qualities of leadership and the financial circumstances of the applicants. *Preference will be given to the sons and daughters of soldiers of the Great War and to soldier students who saw service overseas.*

Applications for these bursaries will be received by the Registrar of the University during the first month of each annual session, and the award will be announced towards the close of the first term. A form of application may be obtained at the Registrar's office.

1851 EXHIBITION SCHOLARSHIPS

By a recent decision of the Royal Commission for the Exhibition of 1851 the University of Manitoba has been included in the list of overseas Universities that are invited to recommend candidates for the Scholarships that are awarded annually by the Commissioners. Every candidate put forward must be a British subject under twenty-six years of age and a *bona fide* student of science of not less than three years' standing. His qualifications for pursuing independent research must be such as to entitle his candidature to serious consideration. The scholar-

ships are of the value of £250 per annum with certain additional allowances. They are tenable ordinarily for two years, the continuation for a second year depending upon the satisfactory nature of the scholar's first year's work. In cases of exceptional merit, where it appears that the renewal is likely to result in work of scientific importance, renewal for a third year may be accorded. These Scholarships may be held, with the approval of the Commissioners, at any institution in Great Britain or abroad, but a scholar will not be permitted to conduct his investigations in the country in which he has received his scientific education.

Applications from students of the University of Manitoba to have their records considered with a view to their possible nomination to the Commissioners for one of these Scholarships, should be in the hands of the Registrar by March 1st in any year.

THE HART SCHOLARSHIP IN CLASSICS

A scholarship of the value of \$50.00 is offered annually for competition among students of the First Year of the Senior Division in Arts, taking Latin III and either Greek III or Greek IV. It will be awarded on the combined results of the examinations of the session in both courses. This scholarship may be held along with an Isbister or other scholarship awarded on the examinations of the same year. The same conditions are laid down as in the case of the Isbister Scholarships, viz., a minimum standing of 75 per cent in both the courses on which the award is made, concurrent completion of a full, normal year's work and freedom from prior conditions. The scholarship will be paid during the next succeeding annual session upon the same plan as the Isbister Scholarships.

The Hart Scholarship is provided from the revenue of a trust fund created by a bequest for the purpose in the will of the late Mrs. Thomas Hart, made in memory of her husband the Rev. Professor Thomas Hart, M.A., D.D., who was professor of Classics in Manitoba College from 1872 to 1910, and her son, Lieutenant-Colonel William Malloch Hart, M.C., B.A., 1903, M.D., 1907.

PHYSIOLOGICAL RESEARCH PRIZE

During the tenure of the chair of Physiology in this University by Professor Swale Vincent and largely as the result of his efforts a fund was established to provide annually, or at longer intervals, a prize for original investigation carried out in the departments of Physiology or Biochemistry. The regulations governing the award of this prize are as follows:

- (1) The prize shall be called "The Physiological Research Prize."
- (2) The prize shall be awarded annually or biennially, or may be withheld at the discretion of the Committee (*vide infra*).
- (3) The interest on the money invested shall be utilized to provide a medal and a money prize for the report on an original investigation, which shall be deemed by the Committee to be of the greatest merit.

(4) The essay submitted must in each case contain an account of original investigation carried out wholly or in part in the Department of Physiology or of Biochemistry of the University of Manitoba.

(5) The subject of the investigation shall be some branch of Physiology or some allied medical or biological subject, and shall be approved by the Committee before the work is commenced.

(6) Work carried out in conjunction with another investigator or results published conjointly with another author may be submitted by a candidate for the prize. In such cases the Committee will take into consideration the part actually taken by the candidate in the work done. Further, in such cases, the candidate must send in an account of the results obtained in the form of an essay, which must be his own unaided composition.

(7) Registered students of the University of Manitoba, and members of the staff other than professors or lecturers, shall be eligible to compete.

(8) Medical practitioners shall be eligible to compete on registration as students of the University.

(9) The duty of making a recommendation for the award of the Prize shall be delegated to a committee consisting of the Professor of Physiology and two others selected by the Medical Faculty Council.

(10) Essays must be in the hands of the Secretary of the Medical Faculty before April 30th of each year.

SCIENTIFIC CLUB'S RESEARCH PRIZE

The Scientific Club of Winnipeg, desiring to foster the spirit of research in the University of Manitoba, offers from time to time a prize, known as the Research Prize of the Scientific Club of Winnipeg. The last award was made in 1931. The date of the next award and the conditions of the same will be announced in the 1932-1933 Calendar.

FRENCH GOVERNMENT BURSARY

By the generosity of the Government of the French Republic, the University of Manitoba is permitted to nominate from time to time a student who has shown promise of proficiency in French studies, to receive a bursary of 6000 francs (with an additional allowance of 5000 francs for travelling expenses) to enable him to study for a year in France. For further particulars any one interested should consult the head of the French Department or the Registrar.

LOAN SCHOLARSHIP FUND OF THE UNIVERSITY WOMEN'S CLUB

The University Women's Club has established a Loan Scholarship Fund, the purpose of which is to give financial assistance to women students of Manitoba University, by loaning them sums of money. No interest is charged on the loans, and the period of repayment is arranged to suit the convenience of the applicant. Enquiries may be addressed to the Dean of Women of the University, or of an affiliated college, or to Miss Jean H. Robson, 321 Dromore Ave., Winnipeg.

SCHOLARSHIP OF THE CANADIAN FEDERATION OF UNIVERSITY WOMEN

1. The Scholarship of the Canadian Federation of University Women of the value of \$1000, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years at graduate study and have a definite plan of advanced study or of research in view. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

2. There are no application blanks, and application is made by letter to the Convener of the Scholarship Committee, Dr. Geneva Misener, The University of Alberta, Edmonton, Alberta.

Applications and recommendations must be received not later than February 1st. None can be accepted after that date.

3. The letter of application should contain an account of the applicant's educational training and a statement in full of the plan of study or research she intends to pursue. This information should be accompanied by:

(a) A written statement from the President of the college or university awarding the degrees held by the applicant to the effect that her application as a suitable candidate is approved.

(b) Testimonials as to her health, character, ability and scholarship. All testimonials and references should be in writing. The committee will assume no responsibility for making enquiry beyond the papers submitted.

(c) Theses, papers or reports of investigations published or unpublished.

All papers submitted by the applicant will be returned if postage is sent for that purpose. Confidential letters will be kept.

4. The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

5. The scholarship is payable in two equal instalments on July 1st and January 1st by the Treasurer of the Federation, provided the successful applicant sends her address for those dates.

6. At the end of her tenure, the candidate shall send a report of her work, together with a statement of its worth from the professor or other authority conversant with her research to the Convener of the Scholarship Committee.

THE I.O.D.E. OVERSEAS POST GRADUATE SCHOLARSHIP

A Scholarship to the value of \$1400 for post graduate study in any British University is offered each year to graduates of the University of Manitoba; students in the last year of their course may also apply. Applications for the Scholarship for 1931-1932 must be sent in by October 1st, 1931. Application forms and information may be obtained from the Provincial Educational Secretary I.O.D.E., 222 Phoenix Block, Winnipeg, or from The National Educational Secretary, I.O.D.E., 238 Bloor Street East, Toronto 5.

THE I.O.D.E. BURSARY

A Bursary to the value of \$300 a year for four years is offered by the Daughters of the Empire each year to cover a course of study at the University of Manitoba. For this Bursary only the sons and daughters of men killed or totally disabled in the Great War are eligible. Applications for the Bursary to be awarded for the coming year must be made in the spring. Application forms and information may be obtained from the Provincial Educational Secretary I.O.D.E., 222 Phoenix Block, Winnipeg, or from The National Educational Secretary, I.O.D.E., 238 Bloor Street East, Toronto 5.

UNIVERSITY TRAVELLING FELLOWSHIPS

Two University Travelling Fellowships, each of the value of \$400.00, are offered for award each year to graduates of the University of Manitoba and under the following conditions:

1. The object of the award of these Fellowships shall be to assist the students to whom they are given to enter upon graduate work in an approved University.

2. One Fellowship shall be awarded each year to a Bachelor of Arts of the University of Manitoba and one every alternate year to a Bachelor of Science of the University of Manitoba and one every alternate year to a Bachelor of Science in Engineering of the University of Manitoba. The awards in 1932 will be in Arts and in Engineering.

3. In order to be eligible to become a candidate for one of these fellowships, a student must—

- (a) Hold the requisite degrees of the University of Manitoba as indicated above.

- (b) Have spent at least three academic years in attendance at the University of Manitoba or an affiliated College.

- (c) Be not more than twenty-five years of age (that is the University Council must be assured that he will not have attained his twenty-sixth birthday by October 1st of the year for which the fellowship is awarded).

4. In considering the claim of each candidate for a University Travelling Fellowship, the Committee of Nomination shall take into account the following:

- (a) The candidate's scholarship as shown by his undergraduate course and subsequent studies, if any;

- (b) The candidate's personality and general record;

- (c) The candidate's ability to profit by postgraduate studies;

- (d) The relation of the postgraduate course proposed by him, both to his undergraduate studies and to the career he plans to follow.

THE RHODES SCHOLARSHIP

The trustees of the late Cecil Rhodes have assigned a Rhodes Scholarship to the Province of Manitoba.

This Scholarship will hereafter be thrown into open competition in the Province, subject to the following conditions:

1. It is open equally to students in all faculties.
2. Candidates must be British subjects, with at least five years' domicile in Canada and unmarried. They must have passed their nineteenth, but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.
3. Candidates must be at least in their Sophomore Year at some recognized degree-granting University or College of Canada, and (if elected) complete the work of that year before coming into residence at Oxford.
4. Candidates may compete either in the Province in which they have received at least two years of their college education, or in the Province in which they have their ordinary private domicile, home or residence.

In each Province there is a Committee of Selection, in whose hands the nominations will rest subject to ratification by the Trustees. The Secretary of the Committee of Selection for Manitoba is Professor Skuli Johnson, University of Manitoba, Winnipeg, who will supply a form of application on request.

The Committees of Selection are instructed to bear in mind the suggestions of Cecil Rhodes, who wished that, in the choice of his Scholars, regard should be had to

- (1) Literary and scholastic ability and attainments.
- (2) Qualities of manhood, truth, courage, devotion to duty, sympathy, kindness, unselfishness and fellowship.
- (3) Exhibition of moral force of character and of instincts to lead and to take an interest in his schoolmates.
- (4) Physical vigour, as shown by interest in outdoor sports or in other ways.

Distinction both in character and personality and in intellect is the most important requirement for a Rhodes Scholarship, and it is upon this that Committees will insist. Success in being elected to office in student organizations may or may not be evidence of leadership in the true sense of the word. Cecil Rhodes evidently regarded leadership as consisting in moral courage and interest in one's fellow men quite as much as in the more aggressive qualities. Physical vigour is an essential qualification for a Rhodes Scholarship, but athletic skill is of less importance than the moral qualities developed in playing outdoor games. Poverty does not give a special claim to a Scholarship. The strongest candidate will be appointed regardless of his financial circumstances. In general candidates will be preferred who will be under the age of 23 when they go into residence at Oxford. In the absence of a strong candidate the Committees will make no appointment.

Every candidate for a Scholarship is required to furnish to the Committee of Selection for his Province the following:

- (a) A certificate of age.

(b) A photograph preferably unmounted and not larger than 4x7 inches.

(c) A written statement from the President or Acting President of his College or University to the effect that his application as a suitable candidate is approved.

(d) Certified evidence as to the courses of study pursued by the Scholar at his University, and as to his gradings in those courses. This evidence should be signed by the Registrar or other responsible official, of his University.

(e) A brief statement by himself of his athletic and general activities and interests at College, and of his proposed line of study at Oxford.

(f) References from six persons well acquainted with him whose addresses must be given in full and under at least two of whom he must have studied.

(g) A medical certificate.

Except under exceptional circumstances the Committee of Selection may summon a candidate to attend a meeting of the Committee of Selection and to write a brief Essay.

The next appointment for Manitoba will be made in 1931, the tenure to begin in 1932. Applications for the Scholarship, with all required material, must reach the Secretary of the Committee of Selection not later than October 31st, 1931.

A Rhodes Scholarship is tenable at the University of Oxford and may be held for two years. Appointments are made for two years in the first instance, and a Rhodes Scholar who may wish to remain for a third year, will be expected to present a definite plan of study for that period, satisfactory to his College and the Rhodes Trustees.

Rhodes Scholars may be allowed, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either to postpone their third year, returning to Oxford for it after a period of work in their own countries, or may spend their third year in post-graduate work at any University of Great Britain, and, in special cases, at a University on the continent of Europe, the overseas Dominions, or in the United States, but not in the country of their origin. The stipend of a Rhodes Scholar is fixed at £400 per year. At most Colleges, and for most men, this sum is not sufficient to meet necessary expenses for term-time and vacations, and scholars who can afford to supplement it by say £50 per year from their own resources, will find it advantageous to do so.

The scholars elect will come into residence in October of the year for which they are elected.

Students who have obtained the B.A. Degree at the University of Manitoba provided that they have resided three years at this University may apply for "Senior Standing" at Oxford, exempting them from all preliminary and intermediate examinations, and making it possible for them to take their Final Honour Schools and B.A. Degree, in two years.

Students who have resided two years at a Canadian University, and passed the examinations incident to a two years' course which has included two languages, other than English, one of which must have been either Latin or Greek, may apply for Junior Standing at Oxford, which carries with it exemption from Responsions but not from the intermediate examination. They can proceed to their B.A. Degree in two years, provided that they obtain Honours either in Moderations or in the Final Honour Schools. Greek is no longer an obligatory subject at Oxford.

<i>Name</i>	<i>Manitoba Rhodes Scholars</i>	<i>College</i>
1904—John MacLean.....		Worcester
1905—William John Rose.....		Magdalen
1906—Stuart Eccles Beech.....		Queen's
1907—Andrew Howard Miller.....		Merton
1908—Howard Robert Lawrence Henry.....		Queen's
1909—Skuli Johnson.....		Oriel
1910—Joseph Thorarinn Thorson.....		New
1911—Eldon Rooklidge Siddall.....		St. John's
1912—Alfred Ewert.....		St. John's
1913—William Nason.....		Oriel
1914—Simon Abrahamson.....		Merton
1915—Morley Semmons Lougheed.....		Christ Church
1916—Erskine Wallace Ireland.....		New
1917—William Burton Hurd.....		Queen's
1918—George Percival Raymond Tallin.....		Queen's
1919—Charles Rhodes Smith.....		Queen's
1920—Edward Bruce Pitblado.....		Queen's
1921—John King Gordon.....		Queen's
1922—Graham Spry.....		University
1923—Arnold Danford Heeney.....		St. John's
1924—Arthur Bruce Johnston.....		Brasnose
1925—Reginald Wilfred Westgate.....		Balliol
1926—Hector Allard.....		St. John's
1927—John Ross McLean.....		Balliol
1928—David McIntosh Turnbull.....		St. John's
1929—Lawrence Christopher Bonnycastle.....		Wadham
1930—John Robert Beattie.....		Queen's
1931—James Elliott Coyne.....		Queen's

MEDALS IN ARTS AND SCIENCE

1. The Governor-General's Gold Medal, the gift of His Excellency the Governor-General, is offered annually for competition among students who have completed the Junior Division and sixteen units in either the Senior Pass or the Senior Honors Division, the aggregate upon the entire fifty-six units of work then completed being taken into account.

2. A University Gold Medal and a University Silver Medal are offered for competition annually among students completing the work of the Senior Pass Division in Arts and Science and proceeding to the B.A. or B.Sc. degree, comparison being made on the basis of the method of raised percentages used in the determination of general proficiency scholarship awards and the students' records being considered for the last sixteen units of credit they have earned, on the aggregate of which they must have attained a standard of at least 80 per cent., and twelve of which must be for work normally taken in the second year of the Senior Pass Division.

3. Five University Gold Medals are offered for competition annually among students completing the work of the Senior Honors Divisions in Arts and Science, and proceeding to the B.A. Honors or B.Sc. Honors degree who have attained a standard of at least 80 per cent. on both their subjects, comparison being made on the basis of the method of raised percentages used in the determination of general proficiency scholarship awards and the students' records being considered for the last sixteen units of credit they have earned, all of which must be for work normally taken in the third year of the Senior Honors Division.

MEDALS IN PHARMACY

A *Silver Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first in order of merit at the examination of the first year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 80 per cent. or above.

A *Gold Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first in the order of merit at the examination of the Second Year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 90 per cent. or above.

A *Silver Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first (or second) in the order of merit at the examination of the Second Year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 80 per cent. or above.

A *Silver Medal*, known as the Flexon Silver Medal, offered by the Council of the Manitoba Pharmaceutical Association, in memory of Mr. Charles Flexon, a former president of the Association, is awarded annually to the student ranking highest (with 85 per cent. or above) in the subject of Chemistry of the Second Year of the diploma course in Pharmacy. The medal is accompanied by a cash prize of \$25.00, known as the Mallinckrodt Prize in Chemistry. The cash award is made for the highest standing in the subject, even where the student does not qualify for the Flexon Medal.

DEGREES IN ABSENTIA

No degree will be conferred *in absentia* except where good reasons for absence have been submitted to, and approved by the Board of Studies, or the Council, and an additional fee of ten dollars may be exacted in each case where permission is granted.

UNIVERSITY ACADEMIC DRESS

The materials and colors prescribed by the Council for the hoods to be worn by graduates of the University are as follows:

B.A.—Black stuff, edged with white rabbit skin, with a braid of green silk.

M.A.—Black corded silk, lined with scarlet corded silk.

M.D.—Black cashmere, lined with purple corded silk.

M.D., C.M.—Black cashmere, lined with purple corded silk and edged with violet silk.

LL.B.—Black silk stuff, lined with white silk, edged with narrow white rabbit skin, and narrow green silk braid along the border.

B.S.A.—Black, lined with green, and edged with white rabbit skin.

B.Sc.—Black, lined with gold-yellow and edged with white rabbit skin.

B.Sc. (Phar.)—Black, lined with light blue and edged with white rabbit skin.

B.Sc. (C.E.)—Black, lined with yellow and edged with white rabbit skin.

B.Arch.—Black, lined with yellow and edged with white rabbit skin.

B.Sc. (E.E.)—Black, lined with yellow and edged with white rabbit skin.

B.Sc. (H.Ec.)—Black, lined with gold-yellow and edged with white rabbit skin.

LL.D.—Scarlet cloth lined with white moire silk.

UNIVERSITY BOOK DEPARTMENT

In order to ensure prompt and reliable service in connection with the supply of text books, notebooks and other materials for students' use, the University operates a book store in the basement of the Arts Building on Kennedy Street, at which everything of this nature can be purchased at the lowest possible prices. Students are urged to make full use of the facilities provided. Any who expect to have available time during the summer are strongly advised to secure as many texts as possible before leaving for the vacation. Extra-mural students may secure their books and supplies by mail.

Address all orders to

The Manager,

UNIVERSITY OF MANITOBA BOOK DEPARTMENT
WINNIPEG.

52.00
6.50

58.50

99.00
85.50

13.50

58.50

15.00

5.00

5.00

2.00

~~83.50~~

FEES

The following fees are required and must be paid to the Accountant of the University in advance. Regular Examination fees are payable at the time of registration, degree fees not later than the last date for payment of first term tuition fees of the final year. Supplemental examination fees are payable at the time application for the examination is made. The fees for admission *ad eundem statum* or *ad eundem gradum* are payable at the time application therefor is made.

EXAMINATIONS IN ARTS AND SCIENCE

Regular Examinations—

Junior Division in Arts and Science—

Each four-unit subject.....\$3.00
and proportionately for subjects of differing credit value.

Senior Division in Arts and Science—

Each four-unit subject.....\$3.75
and proportionately for subjects of differing credit value.

Supplemental Examinations—

Junior Division and Senior Division—

A fee of \$3.00 for the first hour-and-a-half unit and a further fee of \$1.00 for each additional hour-and-a-half unit, whether of half or full papers, up to a maximum of \$8.00.

EXAMINATIONS IN PHARMACY

Regular Examinations—

Each annual session.....\$15.00

Supplemental Examinations—

As in Arts and Science.

TUITION IN ARTS AND SCIENCE

Junior Division—

Each four-unit subject.....\$13.00
and proportionately for subjects of differing credit value.

Senior Division—

Each four-unit subject.....\$16.25
and proportionately for subjects of differing credit value.

TUITION IN PHARMACY

Each annual session.....\$75.00

(The tuition fee of each special student is determined by the Dean of the Faculty concerned after consultation with the Professor in whose department the student receives instruction.)

Payment of Second Term tuition fees may be deferred to first week of the Second Term, but only on the basis of an increase of 10 per cent.

MISCELLANEOUS FEES

Laboratory Fees

Laboratory fees are charged students taking Science courses on the following scale, viz., \$2.50 per full subject in the Junior Division and Senior Pass Division in Arts and Science and in Pharmacy, and \$5.00 per full subject in Senior Honors Division in Arts and Science. The maximum laboratory fee in the Junior Division and in Pharmacy will be \$5.00 and in the Senior Division will be \$10.00.

Degrees

For the Degree of B.A.....	\$10.00
For the Degree of M.A.....	10.00
For the Degree of LL.B.....	10.00
For the Degree of B.Sc. (Phar.).....	10.00
For the Degree of B.Sc.....	10.00
For the Degree of M.Sc.....	10.00
For the Diploma in Pharmacy.....	10.00
For the conferring of any Degree <i>in absentia</i> (for which the consent of the Board of Studies or the University Council must be secured), an additional fee of.....	10.00
For admission <i>ad eundem statum</i>	5.00
For admission <i>ad eundem gradum</i>	5.00

General

Appeals, each paper.....	\$2.00
Registration (payable the first time a student registers in any Faculty).....	2.00
For a Certificate of Standing.....	2.00
For a Statement of Marks, on request.....	1.00

Caution Money

All students taking practical or laboratory classes in the University, are required to deposit with the Accountant at the beginning of each session the sum of \$5.00. Against this will be assessed the value of all apparatus broken or materials wasted in any way other than in the legitimate course of class work, and the balance will be refunded at the close of the term.

Student Organization Fee

The annual fee as set by the various student groups (University Arts, Science, or Pharmacy) for their members is paid to the Accountant at the time of registration and these sums are held by him to the credit of the respective student treasurers.

THE UNIVERSITY LIBRARY

Frank Emmett Nuttall, M.A., Librarian

The main Library occupies three rooms in the old Law Courts, of which the principal reading room was formerly the library of the Law Society. There are also several departmental libraries. The total number of volumes may be estimated at 50,000, and the annual accessions are about 2,000 volumes. The nucleus of the collection was that portion of the Isbister library which escaped destruction by fire, but the greater part of it has been acquired during the past twenty-one years by purchase or by gift.

The following periodicals are received by the University:

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| Actuarial Students' Magazine | Archiv fur Geschichte der Philosophie |
| Agricultural and Industrial Progress in Canada | Aristotelian Society: Proceedings |
| American Architect and Architectural Review | Art and Archaeology |
| American Association of Petroleum Geologists: Bulletin | Art et Décoration |
| American Concrete Institute: Journal | Arts and Decoration |
| American Concrete Institute: Proceedings | Astronomical Journal |
| American Economic Review | Astrophysical Journal |
| American Historical Review | Atlantic Monthly |
| American Institute of Actuaries: Record | Auk |
| American Journal of Anatomy | Aviation |
| American Journal of Archaeology | |
| American Journal of International Law | Banker |
| American Journal of Mathematics | Bankers Magazine (American) |
| American Journal of Pharmacy | Bankers' Magazine (English) |
| American Journal of Philology | Beaux-Arts Institute of Design: Bulletin |
| American Journal of Science | Beaver |
| American Journal of Semitic Languages and Literatures | Bell Laboratories Record |
| American Journal of Sociology | Bell System Technical Journal |
| American Literature | Bell Telephone Quarterly |
| American Mathematical Monthly | Berichte der Deutschen botanischen Gesellschaft |
| American Mathematical Society: Bulletin | Berichte der Deutschen chemischen Gesellschaft |
| American Mineralogist | Biological Abstracts |
| American Museum Novitates | Biological Bulletin |
| American Naturalist | Biometrika |
| American Political Science Review | Booklist |
| American Railway Association: Telegraph and Telephone Section: Proceedings | Bookman (London) |
| American Society of Heating and Ventilating Engineers: Guide. | Bookman (New York) |
| American Society of Heating and Ventilating Engineers: Transactions | Botanical Gazette |
| American Society of Mechanical Engineers: Transactions | Botanisches Centralblatt |
| Anatomischer Anzeiger | British Chemical Abstracts |
| Ancient Egypt | British Journal of Psychology |
| Anglia | British Trade Journal and Export World |
| Anglia: Beiblatt | Brown and Gold: Year Book of the University of Manitoba Students' Union |
| Annalen der Physik | Brown Boveri Review |
| Annales de Chimie | Bulletin Astronomique |
| Annales de l'Université de Paris | Bulletin de la Société chimique de France |
| Annales de Physique | Bulletin des Recherches Historiques (Quebec) |
| Annals of Botany | Bulletin of the American Schools of Oriental Research |
| Annals of Mathematics | Bulletin of the American Society for Testing Materials |
| Annals of the American Academy of Political and Social Science | Bulletin of the Bureau of Education (Department of the Interior, U.S.A.) |
| Annals of the Entomological Society of America | Bulletin of the Geological Society of America |
| Annotated Bibliography of Economic Geology | Bulletin of the National Tax Association |
| Architectural Forum | |
| Architectural Record | California Fish and Game |
| Architectural Review (London) | Canada: Monthly Bulletin of Agricultural Statistics |
| Architecture | |

Canada: Quarterly Report of the Department of Trade, etc.

Canada Year Book
Canadian Bookman
Canadian Economic Service
Canadian Engineer
Canadian Entomologist
Canadian Field Naturalist
Canadian Forum
Canadian Geographical Journal
Canadian Historical Review
Canadian Homes and Gardens
Canadian Magazine
Canadian Medical Association Journal
Canadian National Railway Magazine
Canadian Pharmaceutical Journal
Canadian Railway and Marine World
Canadian Student
Centralblatt für Mineralogie, Geologie und Paläontologie
Ceylon Journal of Science
Chase Economic Bulletin
Chemical Abstracts
Chemical and Metallurgical Engineering
Chemical News
Chemical Reviews
Chemical Society of Japan: Bulletin
Chemisches Zentralblatt
Citizens' Research Institute of Canada: Publications
City Planning
Classical Journal
Classical Philology
Classical Quarterly
Classical Review
Classical Weekly
Combustion
Commercial Intelligence Journal
Compressed Air Magazine
Comptes rendus de l'Académie des Sciences
Concrete
Concrete and Constructional Engineering
Concrete Highways and Public Improvements Magazine
Construction
Contemporary Review
Contract Record
Criterion
Cumulative Book Index

Dalhousie Review
Deutsche Literaturzeitung
Deutsche Volkslied (Das)
Dickensian
Dominion of Canada: Meteorological Service, Daily and Monthly Weather Maps.
Druggists' Circular

Ecology
Economica
Economic Geology
Economic History Review
Economist
E I C News
Electrical Engineering (A.I.E.E.)
Electrical News
Electrical Review
Electrical World
Electrician
Electric Journal
Electric Railway Journal
Electronics
Engineer
Engineering

Engineering and Contracting
Engineering and Mining Journal-Press
Engineering Index
Engineering Journal (E.I.C.)
Engineering News Record
Engineers and Engineering
Englische Studien
English Historical Review
English Journal: College Edition
Entomological News
Entomological Society of America: Annals
Esprit National

Financial Post of Canada
Flight
Fortnightly Review
Fortschritte der Mineralogie, Kristallographie und Petrographie

Gazzetta Chimica Italiana
General Electric Review
Génie Civil
Geographical Journal
Geographical Review
Geological Magazine
Geological Society of South Africa: Transaction (and Proceedings)
Germanic Review
Gramophone

Harvard Business Review
Harvard Economic Service: Review of Economic Statistics
Harvard Economic Service: Weekly Letter
Harvard Studies in Classical Philology
Heating and Ventilating
Heating, Piping and Air Conditioning
Hibbert Journal
History

Illustration
Imperial Institute: Bulletin
Industrial and Engineering Chemistry
Institute Bulletin
International Conciliation
International Index to Periodicals
International Journal of Ethics
International Studio

Jahrbucher für wissenschaftliche Botanik
Jahresbericht über die wissenschaftlichen Erscheinungen auf dem Gebiete der neueren deutschen Literatur.
Japanese Journal of Physics (National Research Council of Japan)
Johns Hopkins University Circular
Journal Asiatique
Journal de Mathématiques
Journal de Pharmacie et de Chimie
Journal de Physique
Journal of Agricultural Research
Journal of American Folklore
Journal of Biological Chemistry
Journal of Comparative Legislation and International Law
Journal of Ecology
Journal of Economic and Business History
Journal of Education
Journal of Educational Psychology
Journal of English and German Philology
Journal of Experimental Zoology
Journal of Geology
Journal of Mammalogy
Journal of Morphology and Physiology
Journal of Palaeontology

- Journal of Parasitology
 Journal of Philosophical Studies
 Journal of Philosophy
 Journal of Physical Chemistry
 Journal of Political Economy
 Journal of the American Chemical Society
 Journal of the American Oriental Society
 Journal of the American Waterworks Association
 Journal of the Canadian Bankers' Association
 Journal of the Chemical Society
 Journal of the Elisha Mitchell Scientific Society
 Journal of the Indian Institute of Science
 Journal of the Institute of Actuaries
 Journal of the Institute of Actuaries Students' Society
 Journal of the Institution of Electrical Engineers
 Journal of the Iron and Steel Institute
 Journal of the New England Water Works Association
 Journal of the Royal Aeronautical Society
 Journal of the Royal Asiatic Society
 Journal of the Royal Astronomical Society of Canada
 Journal of the Royal Institute of British Architects
 Journal of the Royal Microscopical Society
 Journal of the Society of Chemical Industry
 Journal of the Western Society of Engineers
 Justus Liebig's Annalen der Chemie
- Labour Gazette
 Land and Freedom
 Lefax Data Sheets, Electrical
 Liberté
 Library Journal
 Life and Letters
 Literary Digest
 Literatur
 Living Age
 London and Cambridge Economic Service: Monthly Bulletin
 London and Cambridge Economic Service: Special Memorandum
 London Mercury
- Magazine Digest
 Manitoba, University of: Quarterly
 Manitoba Free Press (morning)
 Manitoba Gazette
 Manitoban
 Mathematical Gazette
 Mathematische Annalen
 Mechanical Engineering (A. S. M. E.)
 Mechanical World
 Memoirs of the Geological Survey of Canada
 Mercure de France
 Michigan, University of: Occasional Papers of the Museum of Zoology
 Mind
 Minnesota History
 Model Maker
 Modern Language Notes
 Modern Language Review
 Modern Philology
 Monatshefte für deutschen Unterricht
 Monist
 Monthly Evening Sky Map
 Monthly Labor Review
- Monthly Notices of the Royal Astronomical Society
 Municipal Improvements
 Municipal Review (Canada)
- Nation
 National Congress of Parents and Teachers: Publications
 Nationaliste et le Devoir
 National Research Council of Canada: Canadian Journal of Research
 National Tax Association: Proceedings
 Nation and Athenaeum
 Natural History
 Nature
 Neue Rundschau
 New Phytologist
 New Republic
 New Statesman
 Nineteenth Century and After
 North American Flora
 Notes and Queries
 Nouvelles Littéraires
 Nuovo Cimento
- Observatory
 Ontario Library Review
 Ontario: Hydro-Electric Power Commission: Bulletin
 Orientalistische Literaturzeitung
- Paper Industry
 Petite Illustration
 Pharmaceutical Journal
 Philological Quarterly
 Philologische Wochenschrift
 Philosophical Magazine
 Philosophical Review
 Philosophical Transactions of the Royal Society of London (Series A)
 Philosophical Transactions of the Royal Society of London (Series B)
 Physical Review
 Physical Society of London: Proceedings
 Physikalische Zeitschrift
 Poet Lore
 Poetry of To-day
 Poetry Review
 Political Quarterly
 Political Science Quarterly
 Polytechnic Magazine
 Popular Astronomy
 Power
 Power Plant Engineering
 Proceedings of the Academy of Political Science
 Proceedings of the American Society for Testing Materials
 Proceedings of the Casualty Actuarial Society
 Proceedings of the Imperial Academy: Japan
 Proceedings of the Institute of Radio-Engineers
 Proceedings of the Institution of Civil Engineers
 Proceedings of the London Mathematical Society
 Proceedings of the National Academy of Sciences of the U.S.A.
 Proceedings of the Royal Society (Series A)
 Proceedings of the Royal Society (Series B)

Proceedings of the Zoological Society of London
 Psychological Review
 Public Administration
 Publications of the Dominion Astrophysical Observatory
 Publications of the Dominion Observatory
 Publications of the Modern Language Association of America

Quarterly Journal of Economics
 Quarterly Journal of Mathematics
 Quarterly Journal of Microscopical Science
 Quarterly Journal of Pharmacy
 Quarterly Journal of the Geological Society
 Quarterly Journal of the Royal Meteorological Society
 Quarterly Journal of the University of North Dakota
 Quarterly Review
 Quarterly Review of Biology
 Queen's Quarterly
 Quellen und Studien zur Geschichte der Mathematik, Abteilungen A & B

Railway Age
 Railway Mechanical Engineer
 Readers' Guide to Periodical Literature
 Refrigerating Engineering
 Review of Applied Entomology (Series A)
 Review of Applied Entomology (Series B)
 Review of English Studies
 Reviews of Modern Physics
 Revue de littérature comparée
 Revue de Métaphysique et de Morale
 Revue des Deux Mondes
 Revue d'histoire littéraire de la France
 Revue Générale de l'Electricité
 Revue Hebdomadaire
 Revue Historique
 Revue Scientifique
 Rhodora
 Roads and Streets
 Romania
 Round Table
 Royal Society of Canada: Proceedings and Transactions.
 Russell Sage Foundation: Publications

S.A.E. Journal
 School and Society
 School Life
 School Review
 School Science and Mathematics
 Science
 Science Abstracts—Sec. A—Physics
 Scientific American
 Scientific Monthly
 Seasonable Hints: Eastern and B.C. Edition
 Seasonable Hints: Prairie Edition
 Shakespeare Association Bulletin
 Skandinaviska Kreditaktiebolaget
 Smithsonian Miscellaneous Collections
 Social Science Abstracts
 Society for Pure English: Tracts
 Society of Chemical Industry: Reports of the Progress of Applied Chemistry
 Sociological Review

Spectator
 Spectator (New York)
 Stain Technology
 Statistical Bulletin, Metropolitan Life Insurance Co.
 Studies in Philology

Telephone Engineer
 Times (London), Educational Supplement
 Times (London), Literary Supplement
 Times Weekly Edition
 Transactions of the Actuarial Society of America
 Transactions of the American Electro-Chemical Society
 Transactions of the American Institute of Electrical Engineers
 Transactions of the American Mathematical Society
 Transactions of the American Society of Civil Engineers
 Transactions of the Engineering Institute of Canada
 Transactions of the Faraday Society
 Transactions of the Illuminating Engineering Society
 Transactions of the Newcomen Society

United Empire
 United States: Department of Commerce, Washington: Survey of Current Business
 U.S. Bureau of Standards: Journal of Research
 United States Geological Survey: Bulletin, and Water Supply Papers
 Universities Review
 University of Illinois Bulletin
 University of Illinois Studies in Language and Literature
 University of Illinois Studies in the Social Sciences
 University of Iowa: Studies in Child Welfare
 University of New Brunswick: The Brunswickian
 University of Toronto Monthly
 University of Wisconsin Studies in Language and Literature

Valve World

Water Power
 Waterworks and Sewerage
 Western Municipal News
 Western School Journal
 Winnipeg Mirror
 World Power

Yale Review

Zeitschrift für Botanik
 Zeitschrift für Instrumentenkunde
 Zeitschrift für Kristallographie und Mineralogie
 Zeitschrift für Physik
 Zeitschrift für Physikalische Chemie
 Zeitschrift für Technische Physik
 Zoologica

DEGREES GRANTED IN ARTS AND SCIENCE

DIPLOMAS IN PHARMACY

From April 1st, 1930 to March 31st, 1931

(All as at May 15th, 1930, unless otherwise noted)

Bachelor of Arts

(General Course)

Abbott, Gilbert Norman	Collinson, Beatrice
Abercrombie, Carson Ephriam	Conly, William Wharry
Akre, Adelaide Jeanette	Connell, Beatrice Esther
Albright, Harold Ludlow	Cooney, Vincent Aloysius
Anderson, Maybelle Pauline	Coupar, Stella Cousin (as at Sep-
Andison, Alexander Wilson	tember 25th, 1930)
Arnold, John Porteous	Coutts, Edna May
Badaker, Max (as at September	Cross, James Archibald
25th, 1930)	Davidson, Jennie Guthrie
Bain, Gladys Mildred	Dempsey, Margaret Sarah
Barish, Bertha	Dickson, Elinor Anne
Beattie, John Robert	Dingle, Frances Louise
Beck, Muriel Florence	Dolmage, Ewart Reginal
Beecher, Robert Edward (as at	Dozois, Genevieve Ruth
September 25th, 1930)	Drummond, Frances Carley
Bell, Martha Roberta	Dubinsky, Elsie Mildred
Bennett, Eunice	Edwards, James (as at September
Billinkoff, Annie	25th, 1930)
Birch, Ester Olive Marie (as at	Erb, Marion Winnifred
September 25th, 1930)	Ferguson, Eleanor Clarke
Boyd, Frederick James	Fineman, Anne
Bricker, Harry	Finkleman, Emanuel Marcus
Bridgett, Gertrude	Foreman, Benjamin
Bridgman, Elinore Jean	Frankel, Nina
Buckwold, Ephraim Hymie	Fred, Beatrice Vera (as at March
Cadwell, Dorothy Helen Belle	6th, 1931)
Campbell, Charles Wilfred	French, Isabel Buchanan
Cannon, Mary Belle Elder	Fullerton, Gwendolyn Isobel
Cannon, Ola Mae	Gamey, Albert Earl
Cannon, Vivian Aurelia	Gérard, Marie-Antoinette
Carson, Willa Frances	Goldin, Rose Clare (as at September
Cates, Kathleen Ida Phyllis	25th, 1930)
Chmelnitsky, Bessie	Goodman, Harry Gordon
Chown, Edwin	Gordon, Grace Winnifred
Christilaw, Blanche Alberta	Griggs, Charles William Howard
Clare, Charlotte Lillian	Guertin, Marie Marguerite
Clarke, Janet Craigie	Haig, James Campbell (as at Sep-
Cochrane, Edith Knox	tember 25th, 1930)
Code, Lorraine	Hall, Reginald Walter
Coke, Gladys Marguerite	Halparin, Sara
	Hamilton, Ethel Lorraine
	Hamilton, Ivan Lorne (as at March
	6th, 1931)

Bachelor of Arts—Continued

- Hamilton, Margaret Lillian
 Hammell, Agnes O'Connor
 Hanna, Beulah Elizabeth
 Harland, Hartley Johnson
 Hehn, Shirley Gertrude
 Henderson, Elmer Howard
 Herriot, James Archibald
 Holmes, Robert Sidney
 Houde, Marie Elisa
 Hugg, Alan Eddy
 Hunt, Marion Clark
 Hunt, William de Vere Angus
 Hutton, Howard Forbes
 Iredale, Tannis Jean
 Jacob, Ellen Mary Margaret
 James, Muriel Annie Wallwyn
 Jones, Frances Mary
 Kert, Marcia (as at March 6th, 1931)
 Kilgour, Katharine
 King, Bernice Constance
 Laird, Mary Louise
 Lamont, Corinne Margaret
 Landon, Charles Cecil
 Lavery, Agnes Mae
 Lee, Audrey M. E.
 Leier, Anthony
 LeNeveu, John Cooke
 Lepkin, Ben
 Lerner, Hyman
 Lewis, Barnett
 Lezack, Samuel
 Little, Annie Euphemia
 Loadman, Arthur Earl
 Lopston, Rhuna
 Love, Robert Joseph
 MacGregor, Helen Agnes (as at September 25th, 1930)
 MacMillan, Norman John
 MacNeill, Lachlan Lennox
 Magrath, Dorcas Evangeline
 Marcy, Mary Lita
 Martin, Margaret Laura
 McCullagh, Eva Maude
 McDole, Marguerite
 McDonald, Shirley Mae (as at March 6th, 1931)
 McGillivray, Jean Catherine
 McInnes, Lillian May
 McIntyre, Arthur Ronald
 McKay, Ella
 McKee, Daniel
 McKenty, Constance Bethia
 McKibbin, William David
 McKinney, Joseph Irwin
 McMillan, Marion Catherine
 McMurphy, Archibald Cameron (as at September 25th, 1930)
 McMurphy, Doris Bernice
 McQuaker, John Forrest
 Meech, Gervas Ritchie
 Miles, Nathan
 Millard, Evelyn Donella
 Miller, Isaac Maurice Hyman (as at September 25th, 1930)
 Moloney, Teresa
 Monteith, Robert Angus
 Morison, John Ensworth (as at September 25th, 1930)
 Morris, Evelyn Mae
 Morrison, Tora Mary
 Musgrove, Mildred Grace
 Negrych, Eugene
 Nemenoff, Anne
 Nesti, Delma (as at September 25th, 1930)
 Newman, Mabel Margaret (as at September 25th, 1930)
 Ogryzlo, Jennie Mary
 Parr, Fanny Ivy (as at September 25th, 1930)
 Peart, John William (as at June 27th, 1930)
 Peden, Russell Alexander
 Phillips, Clifford Herbert Paul
 Pickard, George Edmison
 Pierce, Maurice Murray
 Pitblado, Edith
 Presch, Matilda Catherine
 Rabinovich, Shaya
 Reed, Ernest Samuel
 Reid, Jerrold Robinson
 Reyecraft, Evelyn
 Reynolds, Howard John
 Riddell, Irene Merle
 Robinson, Leslie George MacKay
 Robinson, Ruth Beatrice
 Robson, Eva Millicent Hyne
 Ross, William Garland
 Sandison, Richard Ross
 Satten, Sylvia
 Scarth, Irene Elizabeth Monteith
 Shatsky, Minnie
 Shilstra, Mary Hughena Macconnell
 Shnier, Julius George Edward
 Sinclair, William Reynolds
 Sirluck, Hilda
 Slack, Evelyn Muriel
 Slater, Daniel McKenty
 Smaller, Jack Harry (as at September 25th, 1930)
 Smith, Ellen Dundas

Smith, Helen Vivienne
 Sparling, Nora Kerr
 Stadfield, Johann Hjörtur
 Staples, Hazel Anne
 Stevenson, Mary Marjorie
 Stinson, Lloyd Cleworth
 Stoller, Fred
 Stratton, Dudley Harold
 Symons, John Ritchie
 Talnicoff, Mark Alexander
 Tarr, Robert Haggart
 Taylor, Audrey Rothnie
 Teape, Thomas William
 Tennant, Ernest Myles
 Tennant, Mary Eleanor
 Tessler, Miriam Zelda
 Thorkelson, Karl Baldwin (as at
 September 25th, 1930)
 Tier, Mona Jean
 Tolhurst, Mary Jean
 Toole, Margaret Eleanor Doris
 Unkauf, Lila Marcy
 van Engel, Erica Marie Theodora
 Waddington, Mary Ellen Scott
 Walker, Harold Gordon
 Warren, Earle Grant Allan
 Whenham, James Clark
 Whitley, Thomas Melvin
 Williams, Hazel Ina
 Williams, Henry Phipps
 Wolinsky, Paul Israel
 Wolkof, Joseph Sidney
 Wright, Bernice Phyllis

Bachelor of Arts
(Latin Philosophy)

Amyot, George Lionel
 Bernier, Robert
 Gousseau, Joseph
 Guilbert, Roméo
 Laliberté, Arsène
 Lyons, Joseph Clarence
 McNamara, Karl Edwin
 Painchaud, Lucien
 Sala, Hervé
 Uebell, Joseph Vincent
 Van Tighem, Leonard Charles
 Walsh, Thomas Robert

Bachelor of Science
(General Course)

Boardman, Jean Alice Hallie
 Culbertson, Roberta Louise

Downie, Donald Lovell
 Drewry, William Edward
 Hawryluk, Helen Boryslawa
 Huggins, Donalda Margaret
 Josie, Bernice Charlotte
 Kidd, Howard Vincent
 Kines, John Bothwell
 Knapp, Evelyn Mae
 Margoese, Maurice Sydney
 McIver, Murdock James
 McLean, Charles Wellington (as at
 September 25th, 1930)
 McMurphy, Robert Connell
 Montgomery, John Edward
 Newton, Merlin Victor Borden
 Ogryzlo, Stephen Peter
 Roste, Clarence
 Rumsey, William
 Sikevich, Natalie
 Solomon, Ernest
 Thomson, Donald Morley
 Wood, Carl Graham
 Yanik, Nicholas Samuel

Bachelor of Arts
(Honors Course)

Berman, Alfred
 Bewell, Dorothy Annetta
 Brereton, Cloudesley Ross
 Chodorcoff, William
 Dunderdale, John Herbert
 Edwards, Dorothy Lilian
 Lesik, Vera
 Macdonnell, Ronald Macalister
 Maunders, Nora
 Owens, David
 Riddell, Robert Gerald
 Rittenhouse, Charles Burkett
 Sigmundson, Sigurdur

Bachelor of Science
(Honors Course)

Boughton, Rex Vivian
 Leslie, Grace
 Ross, Donald Kenneth
 Siemens, Herman
 Williams, Henry Irwin
 Winkler, Carl Arthur

Master of Arts

Agnew, Janet Margaret, B.A., Manitoba, 1925. Major: Modern English. Minor: Italian History. Thesis: "Charlotte Brontë in Brussels."

Bates, Emma Jean, B.A., Manitoba, 1928. Major: Modern English. Minor: Early and Middle English. Thesis: "The Influence of Coleridge on Wordsworth."

Lawson, Joseph William, B.A., Manitoba, 1923. Major: Pure Mathematics. Minor: Applied Mathematics. Thesis: "Some Cubic and Quartic Fields."

Norquay, Catherine Clara, B.A., Manitoba, 1925. Major: Canadian History. Minor: English Literature. Thesis: "The Hudson Bay Route."

Robinson, George David, B.A., Queen's, 1907. Major: The Synoptic Gospels. Minor: The Fourth Gospel. Thesis: "The Authorship and Characteristics of the Fourth Gospel and its Interrelation with the Synoptic Gospels."

Master of Science

Abbott, Eileen Minnie, B.A., Manitoba, 1918; B.Sc., Manitoba, 1919; M.A., Columbia, 1920. Major: Zoology. Minor: Genetics. Thesis: "The Blood Vascular System of the Spiny Dogfish, *Squalus acanthias* Linne and *Squalus sucklii* Gill."

Brodie, Harold Johnston, B.Sc. (Hon.), Manitoba, 1929. Major: Mycology. Minor: Economic Entomology. Thesis: "A Study of Oidia, their Structure, Relation to Substratum and their Function."

Webb, John Benwell, B.Sc., Manitoba, 1925. Major: General Geology. Minor: Palaeontology. Thesis: "Stratigraphy and Structure of the Foothills Belt, Western Alberta, between Highwood and Berland Rivers."

Doctor of Philosophy

Craigie, John Hubert, A.B., Harvard, 1924; M.S., Minnesota, 1925. Major: Mycology and Phytopathology. Minor: Genetics. Thesis: "An Experimental Investigation of Sex in Rust Fungi."

Macdonald, Patrick Anderson, B.Sc., Manitoba, 1924; M.Sc., Manitoba, 1928. Major: Bio-Physics. Minor: Mathematical Physics. Thesis: "The Psycho-physical Law and the Measurement of Sensation."

Doctor of Laws

(*Honoris causa*)

(Conferred at a special Convocation, August 28th, 1930, on the occasion of the visit to Winnipeg of the British Medical Association)

Sir James Barrett, K.B.E., C.B., C.M.G., M.D., M.S., F.R.C.S., R.A.M.C., A.A.M.C.; Lecturer on Physiology of the Special Senses, University of Melbourne and member of the Council of the University.

Arthur H. Burgess, M.B., Ch.B., M.Sc., B.Sc., F.R.C.S., L.R.C.P.; Professor of Clinical Surgery, Victoria University, Manchester; Fellow Royal Soc. Med. & Assn. Surg., Great Britain and Ireland.

Sir Farquhar Buzzard, K.C.V.O., M.A., M.D. (Oxon.), F.R.C.P.; Physician Extraordinary to the King; Regius Professor of Medicine, Oxford, since 1928; Fellow Royal Society of Medicine.

Doctor of Laws—Continued

Alfred Cox, M.B., B.S., O.B.E., Hon. M.A. (Durham); Med. Secretary, British Medical Association since 1912.

Lord Dawson of Penn, K.C.B., K.C.M.G., G.C.V.O., C.B., M.D., B.Sc., F.R.C.P.; Physician-in-ordinary to H.M. the King since 1907, and to the Prince of Wales since 1923; member of the Senate of the University of London; Fellow, Royal Society of Medicine.

Walter E. Dixon, F.R.S., sometime Professor of Materia Medica and Pharmacology at King's Coll., University of London; Reader in Pharmacology in the University of Cambridge and Assessor to the Regius Professor of Physic, Cambridge; M.A. *honoris causa* (Camb.); M.D., B.S., B.Sc. (Lond.); D.P.H. (Camb.); Examiner in Pharmacology in the Universities of Cambridge, Oxford and London.

N. Bishop Harman, M.A., M.B., F.R.C.S., Lecturer in Ophthalmology and late Dean of the West London Postgraduate College.

Lord Moynihan of Leeds, K.C.M.G., C.B., F.R.C.S., M.S., M.B., Hon. LL.D. (Leeds, Edin., Bristol); M.D. (Ghent), M.Ch. (Dublin), D.Sc. (Belfast); Emeritus Professor of Surgery, University of Leeds; President, Royal College of Surgeons of England.

Samuel Willis Prowse, B.A., M.D., F.R.C.S. (Edin.), F.A.C.S., Dean of the Faculty of Medicine, University of Manitoba.

William Harvey Smith, M.A., M.D., C.M.; Professor of Ophthalmology, University of Manitoba, President of the British Medical Association, 1930.

Sir St. Clair Thomson, M.D., F.R.C.P., Lond.; F.R.C.S., Eng.; Ex-president of the Royal Society of Medicine and of the Medical Society; Fellow of King's College; Emeritus Professor of Laryngology and Consulting Surgeon for Diseases of the Throat and Nose in King's College Hospital.

Diploma in Pharmacy

(All as at May 14th, 1930, unless otherwise noted)

Barker, George Shields
Blumm, Anthony (as at September 25th, 1930)
Cohen, Moses A.
Curry, Lorne William
Duncan, Robert Christopher
Gofine, Sadie
Goldberg, Myer
Gonick, Joseph Wolfe
Gunn, Walter Raymond
Houston, James Douglas
Johnson, Harold Martin
Lewthwaite, William John
Lyttle, James Edward
MacKay, Bruce Frederick
Malchikoff, Bert Abram
Mitchell, Edmund Rawdon
Shaw, William Howard
Simpson, John Ross
Studnitz, Charles (as at September 25th, 1930)
Tackaberry, Edwin Moore
Tergesen, Hans Robert
Tilley, Clarence Harold
Waldman, Louis
Walkey, John Clayton
Weeks, Charles John

REGISTER OF STUDENTS, 1930-1931

N.B.—Under the heading "College," U. represents University; St.B., St. Boniface College; St.J., St. John's College; W., Wesley College; A.I., Approved Outside Instruction; and XM, Extra-Mural. Where the student received instruction at more than one institution, this is indicated.

JUNIOR DIVISION IN ARTS AND SCIENCE

First Year

<i>Name</i>	<i>College</i>	<i>Address</i>
Adams, Charles A.....	(U)	Winnipeg
Adams, John D.....	(U)	Winnipeg
Adams, Margaret B.....	(U)	Winnipeg
Adelman, Ben.....	(U)	Winnipeg
Allison, Mary J.....	(U)	Winnipeg
Anderson, Fred J.....	(St.J)	Winnipeg
Argue, John H.....	(W)	Winnipeg
Arnett, Una F.....	(U)	Winnipeg
Arpin, Roland.....	(U)	Lorette, Man.
Asgeirsson, George.....	(U)	Winnipeg
Baird, Sam L.....	(U)	Winnipeg
Baldry, George S.....	(U)	Winnipeg
Balfour, Barbara R.....	(XM)	Manitou, Man.
Baranovsky, Cyril.....	(U)	Argyle, Man.
Barker, James L.....	(U)	Winnipeg
Bartlett, Margaret.....	(U)	Winnipeg
Beal, J. George R.....	(U)	Winnipeg
Beattie, M. Margaret.....	(U)	Winnipeg
Béchar, Louis L.....	(St.B)	St. Boniface, Man.
Belton, Kathleen M.....	(W)	Winnipeg
Bennett, William J.....	(XM)	Winnipeg
Bereskin, Louis.....	(U)	Winnipeg
Berezynski, B. F. Maxmilian.....	(U)	Winnipeg
Bergman, Norman.....	(U)	Winnipeg
Bernhard, Godfrey.....	(U)	Winnipeg
Bews, David R.....	(W)	Winnipeg
Billinkoff, Alexander.....	(U)	Winnipeg
Bingham, James P.....	(U)	Rosebank, Man.
Birchard, Ruth.....	(U)	Winnipeg
Blanchard, Morrison S.....	(W)	Garson, Man.
Blankstein, Evelyn.....	(U)	Winnipeg
Blumes, Joe.....	(U)	Winnipeg
Bodie, George A.....	(U)	Winnipeg
Borbridge, Allen B.....	(W)	Winnipeg
Boughton, Elizabeth R.....	(W)	Arden, Man.
Bowes, Edna N.....	(W)	Carman, Man.
Bowles, Richard S.....	(U)	Winnipeg
Boyd, Allan V.....	(U)	Winnipeg
Boyd, Daisy.....	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Bradley, Alan E.	(W)	Winnipeg
Breen, Richard R.	(U)	Winnipeg
Bretz, Howard C.	(U)	Winnipeg
Brickman, Leo	(U)	Winnipeg
Bridges, Marie O.	(XM)	Cartwright, Man.
Brodeur, Georges F.	(St. B)	Joliette, N.D.
Brown, Arthur F.	(XM)	Winnipeg
Brown, Basil F.	(U)	Winnipeg
Brown, Dorothy M.	(U)	Winnipeg
Brown, Eleanor L.	(U)	Winnipeg
Brown, George A.	(St. J U)	Winnipeg
Brownstone Bernice E.	(U)	Plum Coulee, Man.
Bruder, Ernest E.	(St. J)	Winnipeg
Brunet, Francois	(St. B)	Norwood, Man.
Bubbs, Frank H.	(U)	Winnipeg
Bucham, William B.	(U)	Winnipeg
Buchanan, John A.	(U)	Winnipeg
Buckwold, Allan	(U)	Winnipeg
Bull, Frederick S.	(WU)	Winnipeg
Burris, Jennie P.	(W)	Winnipeg
Butcher, Wilfred F.	(St. J)	Winnipeg
Cairns, Richard G.	(U)	Winnipeg
Campbell, J. Robert	(U)	Winnipeg
Campbell, Ross M.	(U)	Winnipeg
Carbotte, Marcel	(St. B)	St. Boniface, Man.
Carlyle, Ruth E.	(U)	Winnipeg
Carpenter, Beth O.	(W)	Winnipeg
Cheremkora, John T.	(U)	Winnipeg
Chernick, Harold B. T.	(U)	Winnipeg
Christie, Donald W.	(U)	Winnipeg
Churchill, Edward	(U)	Morris, Man.
Cirulnikov, Abie	(U)	Winnipeg
Clark, Hart D.	(U)	Winnipeg
Claydon, Oliver	(U)	Winnipeg
Cleland, David K.	(U)	Winnipeg
Cohen, Giela	(U)	Winnipeg
Coleman, Charles C.	(W)	Pilot Mound, Man.
Colman, Harry	(U)	Winnipeg
Corbett, Conner A.	(U)	Crystal City, Man.
Cormier, Roger	(St. B)	Fort Garry, Man.
Cottingham, Esther C.	(U)	Winnipeg
Crane, Robert C.	(WU)	Fort Garry, Man.
Crawford, Kathleen B.	(U)	Winnipeg
Creighton, F. Margaret	(XM)	Brandon, Man.
Cumming, John C.	(XM)	Teulon, Man.
Cummings, Errol W.	(W)	Winnipeg
Curry, Benjamin H. G.	(U)	Winnipeg
Dale, J. Munroe	(U)	Winnipeg
Darnell, Frederick W.	(U)	Winnipeg
Diner, Nathaleen	(U)	Winnipeg
Disley, Helen R.	(U)	Winnipeg
Dobush, Lauder	(U)	Winnipeg
Doig, William J.	(U)	Winnipeg
Donner, Nancy	(U)	Winnipeg
Dorfman Sidney S.	(U)	Winnipeg
Dorman, Marjorie F.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Drynan, D. Alan.....	(U)	Winnipeg
Duboff, Sarah.....	(U)	Winnipeg
Duffy, Percy A.....	(U)	Winnipeg
Duncan, Winchester.....	(U)	Winnipeg
Dunlop, Willminn H.....	(U)	Winnipeg
Dydyk, Walter A.....	(U)	Winnipeg
Eastwood, Clifford H.....	(U)	Winnipeg
Edy, John H.....	(U)	Winnipeg
Enman, Roy A.....	(U)	Norwood, Man.
Esling, Ainslie G.....	(U)	Winnipeg
Eustace, Julius L.....	(W)	Winnipeg
Evans, Robert H.....	(U)	Winnipeg
Fahrni, Brock M.....	(W)	Gladstone, Man.
Feinstein, Bertram.....	(U)	Winnipeg
Finlayson, Edward M.....	(U)	Winnipeg
Floyd, J. Austin.....	(WU)	Winnipeg
Foster, Cecil C.....	(U)	Lena, Man.
Fraser, John S. G.....	(W)	Kenton, Man.
Freedman, William.....	(U)	Winnipeg
Fremming, Gerda E.....	(St.B)	Winnipeg
French, Eleanor.....	(U)	Winnipeg
Galbraith, John M.....	(U)	Winnipeg
Gamble, Wynifred Q.....	(U)	Winnipeg
Garland, James.....	(A.I.)	Portage la Prairie, Man.
Gauthier, Louis.....	(St.B)	St. Boniface, Man.
Gill, Norman M.....	(St.J)	Middlechurch, Man.
Gillespie, Ethel I.....	(XM)	Winnipeg
Gillies, Eithor F.....	(U)	Winnipeg
Godfrey, Jessamine B.....	(U)	Winnipeg
Goldstein, David M.....	(U)	Winnipeg
Gotschall, Mary J.....	(U)	Winnipeg
Grant, Gordon.....	(U)	Winnipeg
Green, Audrey H.....	(U)	Winnipeg
Green, Louis N.....	(U)	Winnipeg
Green, Nelson F. H.....	(WU)	Winnipeg
Gregory, Charles M.....	(U)	Winnipeg
Grierson, William J. B.....	(St.J U)	Winnipeg
Griffith, Alan G.....	(U)	Winnipeg
Griffiths, George H. R.....	(St. J U)	West Kildonan, Man.
Griffiths, John A.....	(W U)	Winnipeg
Grisdale, Mildred.....	(U)	Winnipeg
Grocholski, Joseph S. W.....	(U)	Winnipeg
Groff, Douglas C.....	(U)	Winnipeg
Guthrie, John A.....	(U)	Winnipeg
Hamilton, Robert P.....	(U)	Winnipeg
Harper, Henry B.....	(St. J)	Winnipeg
Haubner, Robert H.....	(U)	Lac du Bonnet, Man.
Hawkins, Edward W.....	(W)	Dauphin, Man.
Hay, Evelyn M.....	(U)	Winnipeg
Heinzelmann, Helen V.....	(U)	Winnipeg
Henderson, Alfred G.....	(U)	Winnipeg
Herzer, Dorothy A.....	(W)	Winnipeg
Hignett, Herbert W.....	(U)	Winnipeg
Hillier, Verna M.....	(U)	Winnipeg
Hilton, Wilmer L.....	(U)	Winnipeg
Hnatuk, Edward.....	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Hollenberg, Jacob	(U)	Winnipeg
Holmes, John A. L.	(U)	Winnipeg
Holmes, Robert N. R.	(St. J U)	Winnipeg
Hreczuch, Stephen F.	(U)	Winnipeg
Humeniuk, Peter J.	(U)	Winnipeg
Humphrys, Jane M. G.	(U)	Winnipeg
Hunter, Frederick G.	(U)	Winnipeg
Hutchison, Dorothy A.	(U)	Winnipeg
Hutchinson, John L.	(XM)	Cartwright, Man.
Hutton, Robert A.	(U)	Graham, Ont.
Hyman, Ernest R.	(St. J U)	Winnipeg
Iannone, Nicholas	(U)	Winnipeg
Inglis, Robert	(AI)	Portage la Prairie, Man.
Irwin, John H.	(XM)	Brandon, Man.
Isbister, Claude M.	(U)	Winnipeg
Iverson, Wilson M.	(W)	Winnipeg
Jackson, Alexander B.	(XM)	East Kildonan, Man.
Jalbert, Marcel	(St. B.)	Fort Frances, Ont.
Jamieson, Allison L.	(W)	Winnipeg
Johnson, Edwin R.	(W)	Boissevain, Man.
Johnston, Borden B.	(U)	Lena, Man.
Johnston, Nellie P.	(U)	Winnipeg
Jonsson, Maria S.	(U)	Winnipeg
Jutras, René	(St. B.)	Letellier, Man.
Kanovsky, Sam	(U)	Winnipeg
Kaplan, Sam	(U)	Winnipeg
Karpetz, Eugene	(U)	Winnipeg
Kay, Dorothy I.	(U)	Winnipeg
Keeler, Merle Y.	(U)	Winnipeg
Keith, Virginia M.	(U)	Havelock, N.B.
Kellough, Douglas A.	(U)	Winnipeg
Kennedy, F. Hazel	(U)	Winnipeg
Kennedy, Ian V.	(U)	Selkirk, Man.
Kennedy, John W.	(U)	Winnipeg
Kennedy, Nelson G.	(U)	Poplar Point, Man.
Kenway, Sheila M.	(St. B.)	Norwood, Man.
Kerr, Donald G. G.	(U)	Winnipeg
Kirkpatrick, John M.	(St. J U)	Winnipeg
Koslofsky, Zachariah J.	(U)	Winnipeg
Kosolofsky, Antony J.	(AI)	Prelate, Sask.
Kraft, Ben W.	(XM)	Winnipeg
Kummen, Emily G.	(U)	Winnipeg
Kuntz, Eugenie	(U)	Winnipeg
Kurnarsky, Myer	(U)	Winnipeg
Kushnarov, Freeda	(U)	Winnipeg
Lacelle, Antonio	(St. B.)	Lac Pelletier, Sask.
Lafleur, Olivier	(St. B.)	Lebret, Sask.
Langley, William W.	(U)	Toronto, Ont.
Lawrence, Alexander G.	(U)	Winnipeg
Lecker, Manuel N.	(U)	Winnipeg
Leckie, Robert G.	(U)	Winnipeg
Leipsic, Sylvan	(U)	Winnipeg
Leishman, Edna C.	(U)	Winnipeg
Lennox, Duncan C.	(U)	Winnipeg
Lennox, Gordon H.	(U)	Winnipeg
LePage, Minnie E.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Liddiard, George B.	(AI U)	East Kildonan, Man.
Liddle, Thomas C.	(W)	Winnipeg
Lillie, James	(U)	Winnipeg
Lilly, Alexander J.	(U)	Caron, Sask.
Linford, John H.	(W)	Winnipeg
Lockhart, William S.	(XM)	Brandon, Man.
Lorimer, Helen M.	(U)	Winnipeg
Lount, Wm. D.	(WU)	Winnipeg
Lovelock, Margaret K.	(AI)	Portage la Prairie, Man.
Lowery, Ruth	(U)	Winnipeg
Lucki, Emil	(U)	Winnipeg
Ludwig, Joe A.	(U)	Winnipeg
Luginsky, Molly	(U)	Winnipeg
Lundy, John P.	(AI)	Saskatoon, Sask.
Lyons, Eric U.	(U)	Vancouver, B.C.
McAllister, Mabel J.	(W)	Winnipeg
McArthur, E. Pauline	(W)	Winnipegosis, Man.
MacArthur, William J. C.	(U)	Winnipeg
McCall, Eugene P.	(AI U)	Winnipeg
McColl, Ellen L.	(U)	Winnipeg
McConnell, Brian	(W U)	Dauphin, Man.
McDiarmid, John S.	(W)	Winnipeg
MacDonald, Donald I.	(U)	Winnipeg
McDonald, Norman L.	(W U)	Winnipeg
MacDougall, Don C.	(U)	Winnipeg
McFetridge, James G.	(U)	Winnipeg
McGavin, Hugh J.	(XM)	Plum Coulee, Man.
McGillivray, Edward H.	(U)	Winnipeg
MacKay, Helen M.	(W)	Carman, Man.
McKim, Margaret T.	(U)	Winnipeg
McKinney, George F.	(St. J)	Bethany, Man.
McLaughlin, Leona E.	(U)	Winnipeg
McLean, Jean L.	(U)	Winnipeg
MacLean, Ross M.	(W)	Winnipeg
McLeod, Gordon	(U)	Winnipeg
McLintock, John J. R.	(U)	Winnipeg
McLuhan, Maurice R.	(U)	Winnipeg
McMillan, Audrey M.	(U)	Winnipeg
Macpherson, Jean T.	(U)	Winnipeg
Mair, William E.	(U)	Winnipeg
Majchrowicz, Frank R.	(AI)	Winnipeg
Malley, Fenton A.	(U)	Winnipeg
Manning, Herbert C.	(U)	Winnipeg
Manseau, Léo	(St. B)	Letellier, Man.
Marcson, Simon B.	(XM)	Winnipeg
Margulius, Jack	(U)	Winnipeg
Markell, Max E.	(U)	Winnipeg
Marrin, Philip J.	(U)	Winnipeg
Marsden, Iris V.	(W)	Winnipeg
Marshall, Edgar A.	(U)	Winnipeg
Marshall, George M. F.	(W)	Winnipeg
Martin, Donald A.	(U)	Winnipeg
Martin, Robert F.	(U)	Winnipeg
Mason, Raymond W.	(U)	Winnipeg
Master, James M.	(U)	Winnipeg
Matheson, Samuel H.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
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Meighen, Arthur T.	(U)	Stony Mountain, Man.
Middleton, Charles N.	(St. J)	Lethbridge, Alta.
Miles, George	(U)	Winnipeg
Miles, Gordon E.	(U)	Winnipeg
Millar, James P.	(U)	Winnipeg
Miller, Edith	(XM)	Winnipeg
Miller, Helen R.	(U)	Winnipeg
Millman, Lorna R.	(U)	Winnipeg
Millman, Mary G.	(U)	Winnipeg
Mitchell, Helen J.	(U)	Winnipeg
Mitchell, Ruth R.	(XM)	Winnipeg
Mitenko, Michael A.	(W U)	Winnipeg
Moore, Herman W.	(U)	Winnipeg
Moore, Richard K.	(U)	Winnipeg
Moore, Walter R.	(U)	Cartwright, Man.
Mostow, Sam	(U)	Winnipeg
Mullins, Alexander H.	(U)	Winnipeg
Munroe, Harriet E.	(U)	Winnipeg
Murchie, Helen W.	(U)	Winnipeg
Naimark, Jacob	(U)	Leader, Sask.
Neil, Mary A.	(XM)	Winnipeg
Nixon, Margaret H.	(XM)	Winnipeg
Noveski, Frank	(U)	Winnipeg
Nusgart, Sara	(U)	Winnipeg
O'Connell, Gerald E.	(U)	Winnipeg
O'Dea, Frank M.	(U)	Winnipeg
Olafson, S. Esther	(St. B)	Winnipeg
Orobko, Julius	(W)	Transcona, Man.
Oroskovits, Eugene L.	(AI U)	Riverton, Man.
Osborne, Paul S.	(U)	Winnipeg
Pace, Evelyn	(XM)	Winnipeg
Padwick, Herbert W.	(U)	Winnipeg
Paget, Elaine C.	(U)	Winnipeg
Pallett, Sidney H.	(U)	Winnipeg
Panchyshak, Nicols J.	(U)	Winnipeg
Paul, Robert A.	(U)	Winnipeg
Pearlman, Miriam	(U)	Winnipeg
Pendleton, Glenn H.	(U)	Winnipeg
Penney, Norman	(W)	Kenora, Ont.
Perley, Alfred A.	(U)	Winnipeg
Perron, Conrad	(St. B)	Kenora, Ont.
Perry, Robert	(U)	Winnipeg
Perry, Rubelle G.	(U)	Winnipeg
Peterman, Ursula S.	(U)	Winnipeg
Peterson, Norman	(U)	Winnipeg
Pickersgill, Frank H.	(XM)	Winnipeg
Pilkey, Lawrence G.	(W U)	Winnipeg
Pollock, H. Robert	(U)	Winnipeg
Porter, Harvey W.	(AI)	Portage la Prairie, Man.
Pounder, Festus K.	(XM)	Menteith, Man.
Preston, G. Hubert W.	(St. J U)	Fort Frances, Ont.
Prosser, James G.	(U)	Winnipeg
Przybyszewski, Leonard J.	(AI U)	Arborg, Man.
Puchniak, Bronislaus J.	(AI U)	Winnipeg
Puls, Otto	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Rabinovitch, Beryl.....	(U).....	Morden, Man.
Rabkin, Sara.....	(U W).....	Winnipeg
Ramaekers, Georges.....	(St. B).....	St. Boniface, Man.
Ramsay, Robert M.....	(U).....	Winnipeg
Rankin, Forbes A.....	(U).....	Winnipeg
Rathbone, Eric D.....	(W).....	Fort William, Ont.
Reid, James M.....	(U).....	Winnipeg
Reid, Joseph B.....	(U).....	Winnipeg
Reinoehl, Theodore.....	(U).....	Winnipeg
Rennie, John C.....	(AI).....	Portage la Prairie, Man.
Rettie, James R.....	(U).....	Winnipeg
Rhodes, Herbert G. E.....	(U).....	Winnipeg
Riffel, Major J.....	(AI).....	Prelate, Sask.
Riley, Atha V.....	(U).....	Winnipeg
Ritz, Helen O.....	(U).....	Winnipeg
Rivoire, Jean A.....	(St. J).....	Winnipeg
Robbie, John.....	(U).....	Winnipeg
Robertson, Helen S.....	(U).....	Winnipeg
Robertson, Ruth M.....	(U).....	Winnipeg
Robinson, George W.....	(W U).....	Arnaud, Man.
Robinson, John M.....	(U).....	Winnipeg
Robinson, Norman P.....	(U).....	Neepawa, Man.
Roe, John W. F.....	(U).....	Winnipeg
Rogers, Arthur H.....	(U).....	Dauphin, Man.
Roh, Alexander K.....	(St. J U).....	Winnipeg
Roscoe, Bruno.....	(U).....	Winnipeg
Rosenblat, Eddie.....	(U).....	Winnipeg
Ross, Elmer M. F.....	(W).....	Winnipeg
Ross, Helen M.....	(U).....	Winnipeg
Rothwell, J. Gerald.....	(U).....	Winnipeg
Routledge, Catherine L.....	(W).....	Westbourne, Man.
Roy, Norah J.....	(U).....	Neepawa, Man.
Russell, Edna G. M.....	(U).....	Winnipeg
Russell, Mary.....	(U).....	Winnipeg
Rutherford, M. Helen.....	(W).....	Winnipeg
Rutherford, William.....	(W).....	Winnipeg
Saidman, Anne.....	(U).....	Winnipeg
Saint-Jacques, Michel.....	(St. B).....	Ste. Anne des Chenes, Manitoba.
Sankey, Arthur W.....	(U).....	Waskada, Man.
Schoemperlen, Clarence B.....	(U).....	Strathclair, Man.
Schom, Morris.....	(U).....	Winnipeg
Schropp, Jerome H.....	(U).....	Regina, Sask.
Schwartz, Sollie.....	(W U).....	Ashern, Man.
Scott, Bruce M.....	(U).....	Winnipeg
Secter, Jack M.....	(U).....	Winnipeg
Segal, Roslyne.....	(U).....	Winnipeg
Sernyk, Louis.....	(U).....	Winnipeg
Service, Raymond M.....	(U).....	Winnipeg
Shane, Paul.....	(U).....	Winnipeg
Shanin, Sam.....	(U).....	Winnipeg
Shannon, Louis C.....	(W U).....	Winnipeg
Shepherd, Harold G.....	(U).....	Winnipeg
Sheps, Sam.....	(U).....	Winnipeg
Shickele, Gordon L.....	(AI U).....	Winnipeg
Shirray, Harvey G.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Sigurdsson, John.....	(U).....	Winnipeg
Silverman, Bernard.....	(U).....	Winnipeg
Simon, Thomas A.....	(U).....	Winnipeg
Simpson, Earle G.....	(U).....	Winnipeg
Simpson, Robert M.....	(AI).....	Portage la Prairie, Man.
Sing, Charles W.....	(AI).....	Portage la Prairie, Man.
Slotin, Sam.....	(U).....	Winnipeg
Smillie, Cecilia.....	(W).....	East Kildonan, Man.
Smith, Arthur.....	(U).....	Winnipeg
Smith, Marjorie E.....	(U).....	Winnipeg
Smith, Maurice H.....	(W U).....	Snowflake, Man.
Smith, William M.....	(U).....	Winnipeg
Snider, Ettie.....	(U).....	Winnipeg
Sparling, Joseph W.....	(W).....	Winnipeg
Sperling, Alphonse P.....	(AI).....	Chamberlain, Sask.
Stang, Frank J.....	(AI).....	Macklin, Sask.
Stanley, Frederick J. M.....	(U).....	Winnipeg
Steinkopf, Helen.....	(U).....	Winnipeg
Steinkopf, Jack.....	(U).....	Winnipeg
Stephens, William A.....	(U).....	Balcarres, Sask.
Stevenson, Florence E.....	(U).....	Winnipeg
Stout, Josephine E.....	(U).....	Winnipeg
Struthers, Rex.....	(U).....	Winnipeg
Stubbs, Harold S.....	(U).....	Norwood, Man.
Sulkers, Mary J.....	(U).....	Winnipeg
Sundborn, Theodore J. C.....	(U).....	Benito, Man.
Surguy, Edward G.....	(St. J).....	Winnipeg
Sutherland, Jean E.....	(St. B).....	Winnipeg
Swain, Robert J.....	(St. J U).....	Altamont, Man.
Swaine, Emmie C.....	(U).....	Winnipeg
Swan, Agnes M.....	(U).....	Winnipeg
Sweeney, Florence C.....	(W U).....	Winnipeg
Swyers, Burton G.....	(W).....	Carman, Man.
Tarr, Alan E.....	(U).....	Winnipeg
Termuende, H. Edmée.....	(W).....	Kenton, Man.
Thompson, Harvey.....	(W).....	Winnipeg
Thompson, John E.....	(U).....	Winnipeg
Thomson, Karl D.....	(W U).....	Varsity View, Man.
Thordarson, Gordon.....	(XM).....	Langruth, Man.
Thrift, Eric W.....	(U).....	Winnipeg
Tingley, Archie A.....	(St. J U).....	Selkirk, Man.
Toms, Silas O.....	(W).....	Keewatin, Ont.
Torgan, Harold D.....	(U).....	Winnipeg
Truman, Kenneth A.....	(W U).....	Winnipeg
Vazza, Virginia V.....	(U).....	Winnipeg
Viau, René.....	(St. B).....	St. Boniface, Man.
Wadge, Norman H.....	(U).....	Winnipeg
Wales, Merton W.....	(U).....	Winnipeg
Walker, Gladys M.....	(U).....	Winnipeg
Wallace, John H.....	(U).....	Oak Lake, Man.
Watson, Marjorie A.....	(U).....	Winnipeg
Webber, Thomas H.....	(W).....	Miami, Man.
Wedro, Max.....	(U).....	Winnipeg
Weightman, George E.....	(U).....	Winnipeg
Weselake, Jack V.....	(U).....	Winnipeg
Whitbread, Lily G.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
White, Emerson J.....	(W).....	Dauphin, Man.
Whitlaw, Robert D.....	(W).....	Deloraine, Man.
Wiley, John H.....	(U).....	Winnipeg
Williamson, Walter A.....	(U).....	Winnipeg
Willows, Thomas G.....	(U).....	Winnipeg
Wilton, Graham S.....	(W).....	Roland, Man.
Winkler, Anthony V.....	(U).....	Virden, Man.
Winn, Ella I.....	(XM).....	Brandon, Man.
Wiseman, Nathan.....	(U).....	Winnipeg
Wong, Walter J.....	(U).....	Cadillac, Sask.
Worsley, Gordon H.....	(U).....	Winnipeg
Wyatt, Henry V. L.....	(U).....	Winnipeg
Wylie, Florence J. S.....	(W).....	Winnipeg
Yaffe, Philip.....	(U).....	Winnipeg
Young, Beatrice L.....	(U).....	Winnipeg
Young, John O.....	(U).....	Winnipeg
Zentner, Alex.....	(U).....	Winnipeg

JUNIOR DIVISION IN ARTS AND SCIENCE

Second Year

<i>Name</i>	<i>College</i>	<i>Address</i>
Abells, Harry.....	(U).....	Winnipeg
Ackland, Catherine M.....	(U).....	Winnipeg
Akins, Dorothy.....	(U).....	Winnipeg
Alexander, Edith F.....	(XM).....	Swift Current, Sask.
Alexander, Robert B.....	(U).....	Winnipeg
Alpert, Morris A.....	(U).....	Winnipeg
Anderson, Clifford B.....	(W U).....	McAuley, Man.
Anderson, Christian E. S.....	(XM).....	Baldur, Man.
Anderson, Julius.....	(U).....	Baldur, Man.
Anderson, Sigrun.....	(W).....	Cypress River, Man.
Anderson, Stephen P.....	(U).....	Winnipeg
Andres, Frank J.....	(U).....	Arnaud, Man.
Andrews, Stanley.....	(U).....	Winnipeg
Armstrong, Olive A.....	(XM).....	Winnipeg
Arnett, Arthur S.....	(U).....	Winnipeg
Ast, Frank.....	(U).....	Dysart, Sask.
Astbury, Constance E.....	(XM).....	Russell, Man.
Atchison, Clarence E.....	(U).....	Winnipeg
Atkins, Richard C.....	(U).....	Winnipeg
Auger, Edward.....	(St. B).....	Neche, N.D.
Averbach, Sara C.....	(U W).....	Winnipeg
Avren, Samuel S.....	(U).....	Winnipeg
Bachewich, Mary.....	(U).....	Winnipeg
Baird, Helen L.....	(U).....	Regina, Sask.
Baldwin, Russel M.....	(U).....	Benito, Man.
Baron, Mary A.....	(U).....	Winnipeg
Bartley, Melville W.....	(St. J U).....	Fort Frances, Ont.
Bateman, B. Scott.....	(W U).....	Brandon, Man.
Batty, William F.....	(XM).....	Lang, Sask.
Baxandall, Dorothy M.....	(U).....	Winnipeg
Bedson, Bernice R.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Beley, Ernest G.	(U)	Winnipeg
Bend, Robert W.	(W U)	Poplar Point, Man.
Berck, Ben A.	(XM)	Winnipeg
Bernstein, Norman H.	(U)	Winnipeg
Best, M. Herdis	(U)	Winnipeg
Billyard, William F. C.	(XM)	Winnipeg
Binder, Harry	(U)	Winnipeg
Bird, Brian	(U)	Swan River, Man.
Black, Cecil	(U)	Winnipeg
Black, George M.	(U)	Winnipeg
Blackwell, Andrew C.	(XM)	Brandon, Man.
Blake, Daniel	(U)	Winnipeg
Bodie, John L.	(XM)	Winnipeg
Bodvarsson, Bodvar J. S.	(XM)	Geyser, Man.
Bokhaut, Bernard	(U W)	Melville, Sask.
Bonnycastle, Joan	(U)	Dauphin, Man.
Borgford, Gisli S.	(U)	Winnipeg
Boroditsky, Aaron	(U)	Winnipeg
Bowen, Muriel A.	(XM)	Solsgirth, Man.
Bowman, Edith R.	(XM)	Winnipeg
Boyd, Mary R.	(U)	Norwood, Man.
Box, Gilbert D.	(W U)	Treherne, Man.
Bracken, J. Bruce	(U W)	Winnipeg
Braun, Linda R.	(XM)	Winnipeg
Briggs, Roberta	(U)	Winnipeg
Broad, Myrtle E. E.	(W)	Winnipeg
Broad, Robert L.	(U)	Kenora, Ont.
Brophy, Sheila M.	(St. B)	Deloraine, Man.
Brotman, Ervin H.	(U)	Winnipeg
Brounstein, Anna	(U)	Vonda, Sask.
Brown, Maude M.	(XM)	Transcona, Man.
Brown, Orwell	(U)	Winnipeg
Browse, Robert M.	(U)	Winnipegosis, Man.
Bruser, David M.	(U)	Humboldt, Sask.
Bryce, Bridgie	(U)	Winnipeg
Bubis, Morris E.	(U)	Winnipeg
Buchanan, William W.	(U W)	Winnipeg
Buggey, Lillian R.	(W)	Rivers, Man.
Buriak, Lewis J.	(W U)	Winnipeg
Burns, Margaret M.	(U)	Winnipeg
Buscarlet, Anna S.	(XM)	Souris, Man.
Butler, Howard T.	(XM)	Virden, Man.
Cain, Gordon P.	(U)	Winnipeg
Campbell, Marjorie A.	(U)	Norwood, Man.
Campbell, Ruth H.	(U)	Winnipeg
Caron, Joseph	(St. B)	St. Charles, Man.
Chapple, Wilma C.	(XM)	Shoal Lake, Man.
Charnley, John F.	(St. J)	Winnipeg
Cherewick, Fredrick J.	(U)	Mikado, Sask.
Cherniack, Minnie	(U)	Winnipeg
Chevrier, Noe A.	(U)	Winnipeg
Cheyne, Gretta I.	(XM)	Winnipeg
Cheyne, Kathleen E.	(U)	Winnipeg
Cheyne, Lucy M. M.	(XM)	Winnipeg
Christie, Gudmundur S.	(U)	Glenboro, Man.
Christie, Mabel V.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Chudom, Vivian.....	(U).....	Winnipeg
Clack, Leslie C.....	(St. J).....	Winnipeg
Clarke, Connie A.....	(U).....	Winnipeg
Clarke, John W.....	(XM).....	Miniota, Man.
Clarke, Ralph B.....	(U).....	Minnedosa, Man.
Clay, Charles.....	(W U).....	Winnipeg
Cohen, Frank N.....	(U).....	Winnipeg
Cohen, Nat.....	(XM).....	Winnipeg
Coke, Lawrence R.....	(U).....	Winnipeg
Colert, Walter M. Y.....	(U).....	Langenburg, Sask.
Compton, Marion P.....	(XM).....	Miami, Man.
Conklin, Jack G.....	(U).....	Winnipeg
Conklin, John M.....	(U).....	Winnipeg
Coolidge, Clifton H.....	(W U).....	Winnipeg
Cooney, Maurice J.....	(U).....	Winnipeg
Corbett, William A.....	(W U).....	Winnipeg
Cottingham, Adrienne.....	(U).....	Winnipeg
Coupar, Margaret L.....	(U).....	Winnipeg
Coutts, Winston F.....	(U).....	Winnipeg
Cox, Phyllis R.....	(XM).....	Winnipeg
Craig, Marjorie A.....	(U).....	Winnipeg
Crain, Mary.....	(XM).....	Fortier, Man.
Cramer, Archie B.....	(U).....	Winnipeg
Crossman, Raymond G.....	(U).....	Rosetown, Sask.
Cruikshank, C. Claude.....	(U).....	Winnipeg
Cuddy, Thos. F.....	(XM).....	Winnipeg
Cumberland, Agnes M.....	(XM).....	Manitou, Man.
Curle, Eldred.....	(U).....	Winnipeg
Curry, Adele E.....	(U).....	Winnipeg
Curtis, Edward H.....	(U).....	Winnipeg
Daley, Margaret A.....	(St. B).....	Winnipeg
Dark, James G.....	(XM).....	Hallboro, Man.
Davidson, James I.....	(U).....	Winnipeg
Davidson, Muryel M.....	(W U).....	Winnipeg
Davies, Enoch C.....	(XM).....	Glen Ewen, Sask.
Davison, Helen A.....	(U).....	Oxbow, Sask.
Day, Frances A.....	(XM).....	Oak River, Man.
Delmage, John E.....	(XM).....	Dauphin, Man.
De-Fehr, Cornelius C.....	(U).....	Winnipeg
de Moissac, Pierre.....	(St. B).....	St. Norbert, Man.
Deniset, Renee.....	(XM).....	St. Boniface, Man.
Dennison, Ernest N.....	(W U).....	Winnipeg
De Ruyck, Gerard.....	(St. B).....	Cypress River, Man.
Despard, Dorothy V.....	(U).....	Winnipeg
Dickson, Shirley Jean.....	(U).....	Winnipeg
Diehl, Arthur C.....	(U).....	Winnipeg
Dion, Raymond.....	(St. B).....	St. Leon, Man.
Dobbie, G. Alice R.....	(XM).....	Reston, Man.
Dobbs, Leon A.....	(U W).....	Winnipeg
Dobson-Smith, Charles F.....	(W).....	Rosetown, Sask.
Doerksen, William B.....	(U).....	Winnipeg
Doern, Renata R.....	(XM).....	Morden, Man.
Donald, Ross L.....	(U).....	Winnipeg
Doupe, Clare.....	(U).....	Winnipeg
Dowling, Stirling.....	(U).....	Winnipeg
Druckman, Clarice.....	(XM).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Druxerman, Lawrence	(U)	Winnipeg
DuBick, Nicolas D.	(U)	Winnipeg
Dunning, Grace M.	(XM)	Lyleton, Man.
Dunsheath, Ward	(U)	Winnipeg
Dyck, Isaac A.	(XM)	Rosthern, Sask.
Dyker, Allan L.	(U W)	Waskada, Man.
Earl, Grace M.	(U)	Fort William, Ont.
Edwards, Cecil H.	(XM)	Stonewall, Man.
Eggertson, Sigridur	(XM)	Siglunes, Man.
Ellingham, John B.	(WU)	Winnipeg
Elliott, Marjorie C.	(W U)	Winnipeg
Elliott, Robert W. K.	(U)	Winnipeg
Elvin, Ruth B. M.	(U W)	Winnipeg
Emery, Donald M.	(U)	Winnipeg
Epp, Agatha	(XM)	Morden, Man.
Erb, Walter J.	(U)	Yellow Grass, Sask.
Everson, Rosswell Norman	(W U)	Morden, Man.
Eyolfson, Gudmundur A.	(U)	Langruth, Man.
Fader, Graham A.	(W U)	Fort William, Ont.
Fainstein, Max	(St. J)	Winnipeg
Fallis, John R.	(U W)	Carberry, Man.
Fanshaw, Hubert L.	(U)	Winnipeg
Feltham, Bessie	(X M)	Winnipeg
Ferguson, Blair	(U)	Winnipeg
Filkow, Mary	(U)	Winnipeg
Finch, Mrs. Bessie	(X M)	Winnipeg
Fines, Raymond N.	(XM)	Balmoral, Man.
Firman, Michael R.	(XM)	Fisher Branch, Man.
Fishman, Betty	(U)	Winnipeg
Fishman, Saul	(U)	Minnedosa, Man.
Fiskin, Ethel	(U W)	Winnipeg
Fitton, Harry	(W U)	Brandon, Man.
Forbes, James D.	(U)	Winnipeg
Ford, Alexander E.	(XM)	East Kildonan, Man.
Forster, Ora M.	(St. B U)	Winnipeg
Fox, Verna E.	(XM)	Weyburn, Sask.
Fraser, Constance L.	(U)	Winnipeg
Fraser, Elizabeth C.	(U)	Winnipeg
Fraser, Jean A.	(W U)	Pilot Mound, Man.
Frazer, William G.	(U)	Beulah, Man.
Friedman, Cubid	(U)	Maymont, Sask.
Friesen, Abram J.	(U)	Altona, Man.
Fryers, Alfred F.	(U)	Minnedosa, Man.
Fuller, Gertrude M.	(U)	Winnipeg
Galliot, Andrée	(XM)	Notre Dame de Lourdes, Man.
Gass, Muriel J.	(U)	Winnipeg
Gerry, Cleve C.	(W U)	Fort William, Ont.
Gibbons, Joyce	(U)	Dauphin, Man.
Gilchrist, William N.	(W U)	Sinclair, Man.
Gill, William J.	(U)	Broadview, Sask.
Gill, Norman M.	(St. J U)	Middlechurch, Man.
Gillespie, Isabel E.	(U)	Winnipeg
Gillespie, Kathleen M.	(U)	Winnipeg
Ginsberg, Hymie D.	(U)	Winnipeg
Gladstone, Nina	(XM)	Winkler, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Glover, Hannah L.	(XM)	Hartney, Man.
Goldstein, Heloise	(U)	Winnipeg
Goluboff, Nathan	(U)	Winnipeg
Goodman, Sam	(U)	Winnipeg
Gordon, Marjorie	(U)	Winnipeg
Grafton, Bernard M.	(U)	Oak River, Man.
Graham, Lyla M.	(W)	Fort Frances, Ont.
Graham, Beatrice L.	(XM)	Winnipeg
Graham, William H.	(U W)	Winnipeg
Gray, J. Una	(U)	Winnipeg
Greenaway, Archie G.	(W U)	Roblin, Man.
Greenaway, John W.	(U)	Crystal City, Man.
Greenberg, Allen	(U)	Winnipeg
Gregory, Evelyn D.	(U W)	Winnipeg
Haigh, William A.	(W U)	Souris, Man.
Hales, Raymond E.	(W U)	Winnipeg
Haney, William L.	(U)	Winnipeg
Hansen, Stefan	(U)	Humboldt, Sask.
Harbottle, John L.	(U)	Pine Falls, Man.
Hardyment, Archibald F.	(U)	Winnipeg
Harle, Sydney A.	(U)	Regina, Sask.
Harris, Van	(U)	Winnipeg
Harrison, Barbara F.	(XM)	Winnipeg
Harvey, Mabel	(XM)	St. Andrew's, Man.
Hassard, John	(U)	Portage la Prairie, Man.
Hauch, Esther L.	(XM)	Galien, Michigan
Havelock, Charles W.	(U)	Foley P.O., Man.
Hecht, Anne	(W U)	Winnipeg
Henderson, George Fraser	(U)	Winnipeg
Henderson, Stanley C.	(XM)	Winnipeg
Hendin, Jetta S.	(U)	Winnipeg
Hennesey, Frank M.	(W)	Belmont, Man.
Hestrin, Solomon	(U)	Winnipeg
Hill, Herbert	(U)	Winnipeg
Hilton, William R.	(U)	Winnipeg
Hinds, John C.	(W U)	Warren, Man.
Hodgson, Jean G. L.	(St. B)	West Kildonan, Man.
Holm, Arnold W.	(U)	Lundar, Man.
Hoole, Cuthbert R.	(U)	Winnipeg
Hooper, Hubert H.	(XM)	Winnipeg
Howlett, Jessie E.	(W U)	Winnipeg
Hryhorchuk, Ross M.	(U W)	Ethelbert, Man.
Hudson, Elizabeth R.	(U)	Winnipeg
Hull, Elizabeth A.	(U)	Winnipeg
Hunter, Jean C.	(W U)	Reston, Man.
Hutchison, Harold	(U)	Winnipeg
Ingram, William M.	(XM)	Winnipeg
Irwin, Genevieve D.	(U)	Winnipeg
Jack, Colin E.	(W)	Winnipeg
Jackman, Margaret E.	(U)	Middlechurch, Man.
Jacques, Adrien	(St. B)	St. Boniface, Man.
James, Mary E. Reaveley	(U)	Winnipeg
Jarrott, Thomas R.	(U)	North Portal, Sask.
Jeske, Ida M.	(XM)	Brunkild, Man.
Joba, John	(XM)	Winnipeg
Johnson, Kjartan I.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Johnson, Ragna.....	(U)	Winnipeg
Johnston, Stanley K.....	(XM)	Rouleau, Sask.
Jones, Frank W. O.....	(St. J)	Winnipeg
Jordan, William A.....	(AI U)	Winnipeg
Joubert, Joseph.....	(St. B)	St. Pierre, Man.
Joyal, Armand.....	(St. B)	Ste. Agathe, Man.
Justus, Fred A.....	(XM)	Beausejour, Man.
Kahanovitch, Esther R.....	(U)	Winnipeg
Kammrath, Hilda M.....	(W U)	East Kildonan, Man.
Karbachinsky, Samuel.....	(U)	Melville, Sask.
Kaskovitch, Louis.....	(XM)	Winnipeg
Katz, Sidney.....	(U)	Winnipeg
Keith, Marjorie.....	(St. B)	Winnipeg
Kellett, Edgar W.....	(U)	Winnipeg
Kelly, Margaret H.....	(XM)	Winnipeg
Kepman, Willie G.....	(U)	Winnipeg
Kidd, Roberta M.....	(W U)	Vandura, Sask.
Kilby, Thomas H.....	(W U)	Brandon, Man.
Kilgour, David E.....	(U)	Winnipeg
King, Brockwell C.....	(W U)	Winnipeg
King, John E.....	(U W)	Winnipeg
Kliffer, Isadore.....	(U)	Winnipeg
Klippenstein, Bernard D.....	(XM)	Altona, Man.
Knox, Hilda P.....	(XM)	Winnipeg
Kotyk, Nicholas.....	(XM)	Garland, Man.
Kobrinsky, Theodore T.....	(U)	Winnipeg
Kokor, Olga.....	(W U)	Kenora, Ont.
Kranis, Yetta.....	(XM)	Winnipeg
Krepiakevich, Peter.....	(XM)	Hamton, Sask.
Krett, Alexandra.....	(U)	Winnipeg
Kristinson, Arni.....	(XM)	Killarney, Man.
Kyle, Vivian M.....	(U)	Winnipeg
Ladd, Gordon E.....	(U W)	Winnipeg
Lalonde, Emery D.....	(U)	Port Arthur, Ont.
Landreth, Wallace J.....	(W U)	Winnipeg
Lang, William S. M.....	(U)	Winnipeg
Lanham, Percy A. S.....	(U)	Winnipeg
Lane, Gwendolyn J.....	(W U)	Birtle, Man.
La Rivière, Eugène.....	(St. B)	St. Boniface, Man.
Lasko, Alexander A.....	(U)	Howden, Man.
Laughland, Jean.....	(XM)	Winnipeg
Laurie, Robert A.....	(XM)	St. Charles, Man.
Laycock, Margaret L.....	(XM)	Winnipeg
Leahy, Edna.....	(St. B)	Winnipeg
Leckie, George C.....	(XM)	Winnipeg
Lee, Margaret H.....	(U)	Winnipeg
Leitch, Gordon W.....	(U)	Souris, Man.
Leith, M. Isobel.....	(W U)	Winnipeg
Lennox, Jean G.....	(XM)	Winnipeg
Lerner, Alec.....	(U)	Winnipeg
Lesik, Olga.....	(XM)	Winnipeg
Levi, Leonard.....	(U)	Winnipeg
Levin, Bonnie.....	(U W)	Winnipeg
Levine, Charles.....	(U)	Winnipeg
Libert, John Robert.....	(W)	Pine Falls, Man.
Liddle, John W.....	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Lightly, Robert W.	(XM)	Treherne, Man.
Lilly, Robert H.	(U W)	Caron, Sask.
Litch, Richard M.	(U)	Winnipeg
Little, Robert H.	(U)	Winnipeg
Littlejohn, William S.	(XM)	Arrow River, Man.
Littleproud, Enid M.	(U)	Winnipeg
Loban, Ada	(U)	Winnipeg
Locke, Lorne W.	(U)	Winnipeg
Loree, Maurice R.	(W)	Winnipeg
Lousley, C. A. Hugh	(W U)	Neepawa, Man.
Lousley, Albert Wilkinson	(W U)	Neepawa, Man.
Loewen, Mary J.	(XM)	Winkler, Man.
Lucow, Goldie	(XM)	Winnipeg
Ludwick, Sadie	(U)	Winnipeg
Ludwig, Jessie A.	(U W)	Winnipeg
Lundy, Frank E.	(U)	Winnipeg
Lush, Erma Nadine	(U)	Winnipeg
Lutes, Earl L.	(U)	Winnipeg
Lyons, Gorman F.	(U)	Winnipeg
McBride, Hugh V.	(XM)	Winnipeg
McCammon, Joseph	(W U)	Kenora, Ont.
McClellan, Grace I.	(W)	Selkirk, Man.
McConnell, Mabel A.	(W U)	Alonsa, Man.
McCuaig, Ellen M.	(XM)	Medora, Man.
McDonald, Eileen M.	(St.B)	Winnipeg
McDougall, Margaret L.	(W U)	Neepawa, Man.
McDougall, Roberta E.	(W)	Winnipeg
McIntosh, Russell	(U)	Winnipeg
McKellar, Earl D.	(XM)	Roblin, Man.
McKenty, John S.	(U)	Winnipeg
McLean, Elsie E.	(U)	Tilston, Man.
McLean, Lawrence A.	(U)	Hamiota, Man.
McLean, Margaret Gordona	(U)	Winnipeg
McLeod, Ian N.	(U)	Brookside, Sask.
McLeod, Muriel A.	(U)	Winnipeg
McLellan, Lois E.	(XM)	Inwood, Man.
McMahon, Olive M.	(St.B)	Winnipeg
McMillan, Isobel	(U)	Arnaud, Man.
McPhail, Clayton O.	(U)	Winnipeg
McMurphy, Jack A.	(U)	Winnipeg
McTavish, John M.	(St.J)	Winnipeg
McVicar, Reid G. W.	(U)	Winnipeg
MacDonald, Margaret J.	(U)	Winnipeg
Macdonald, Margaret	(U)	Brandon, Man.
MacDonald, Mary E.	(XM)	Elmwood, Man.
Macfarlane, Doris	(U)	Winnipeg
MacFee, Maxine B.	(U)	Winnipeg
MacKay, Dorothy J.	(U)	Garson, Man.
Mackay, Katherine E.	(U W)	Winnipeg
Mackay, Mary Jean	(U)	Winnipeg
Mackay, Marion E.	(U)	Winnipeg
MacKenzie, Lillian G.	(U W)	Winnipeg
MacKenzie May F.	(XM)	Moose Jaw, Sask.
MacKinnon, William B.	(U)	Portage la Prairie, Man.
MacLeod, Florence G.	(U)	Winnipeg
MacNab, William J.	(XM)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
MacPhail, Eleanor A.	(U)	Winnipeg
MacTavish, Jean	(U)	Winnipeg
Magill, Helen M.	(U)	Winnipeg
Major, Charles K.	(U)	Winnipeg
Malcom, Irma M.	(U)	Winnipeg
Malcolmson, Isobel	(W)	Carman, Man.
Maley, Stephen C.	(U)	Windsor, Ont.
Malloy, Frances L.	(XM)	Lac du Bonnet, Man.
Mandel, Mike	(U)	Winnipeg
Manson, Margaret E.	(XM)	Shoal Lake, Man.
Marantz Sally F.	(U)	Winnipeg
Mark, Viola C.	(XM)	Souris, Man.
Martin, Douglas T.	(U)	Regina, Sask.
Marvin Reginald A.	(U)	Carberry, Man.
Matas, Harry	(U)	Winnipeg
Mathews, William H.	(U)	Winnipeg
Mathias, D. Gordon B.	(U)	Fort William, Ont.
Mayehruk, Paul	(AI)	Winnipeg
Medovy, Ida	(U W)	Winnipeg
Meighen, Marion M.	(U)	Portage la Prairie, Man.
Melman, Bernard	(U)	Winnipeg
Menzies, A. Ross	(U)	Winnipeg
Menzies, Edythe A.	(U W)	Winnipeg
Mesbur, Boris	(U)	Winnipeg
Metcalfe, Ferris C.	(U)	Portage la Prairie, Man.
Metcalfe, William L.	(U)	Portage la Prairie, Man.
Miller, Alice	(U W)	Winnipeg
Miller, Thomas N.	(W)	Winnipeg
Mills, Mildred E.	(W U)	Winnipeg
Mitchell, Amy Jean	(XM)	LaRiviere, Man.
Mitchell, Charles H.	(U)	Winnipeg
Mitchell, Phyllis C.	(U W)	Winnipeg
Mitenko, Peter	(W U)	Winnipeg
Moffett, Helen B.	(W)	Balcarres, Sask.
Moir, James H.	(W U)	Winnipeg
Montgomery, Eleanor G.	(U)	Stonewall, Man.
Monteith, John S.	(U)	Winnipeg
Moody, Alan C.	(U)	Routledge Man.
Moore, Richard E.	(XM)	Elgin, Man.
Moore, Wesley T.	(W U)	Keewatin, Ont.
Morris, Anne	(U)	Selkirk, Man.
Morrison, Alice E.	(W)	Fort Frances, Ont.
Morrison, Helen B.	(U)	Winnipeg
Morrison, William F.	(U)	Winnipeg
Morton, Helen D.	(W U)	Elphinstone, Man.
Morton, Margaret	(U)	Gladstone, Man.
Mould, Dorothy P.	(U)	Bienfait, Sask.
Mullett, Mary B.	(XM)	Carleton Place, Ont.
Munsie, Lexie J.	(U)	Winnipeg
Murray, Hayward G. S.	(U)	Winnipeg
Mylrea, Elizabeth M.	(XM)	Oak River, Man.
Nash, John B.	(U)	Elgin, Man
Nelles, Stephen B.	(U)	Regina, Sask.
Neuman, Raymond	(XM)	Manitou, Man.
Newman, Walter C.	(W U)	Winnipeg
Newton, Frederic A.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Nitikman, Gladys.....	(U).....	Winnipeg
Noble, Alexander.....	(U).....	Winnipeg
Normandeau, Gérard.....	(St. B).....	La Broquerie, Man.
Nylander, John M. E.	(U).....	Winnipeg
O'Neill, Elizabeth F.....	(U).....	St. Boniface, Man.
Onions, William G.....	(W).....	England
Oshanek, William A.....	(XM).....	Winnipeg
Paget, Patricia N.....	(U).....	Winnipeg
Palsson, Harold M.....	(U).....	Langham, Sask.
Panar, Maisie.....	(U).....	Winnipeg
Paguin, Marie R.....	(St. B).....	Winnipeg
Parker, Benjamin S.....	(U).....	Winnipeg
Parrott, Winifred M.....	(XM).....	Regina, Sask.
Pastuck Russell.....	(U).....	Winnipeg
Pearen, Raymond O.....	(U).....	Keewatin, Ont.
Pearl, Bert.....	(U).....	Winnipeg
Pearlman, Sam.....	(U).....	Winnipeg
Peto, Howard B.....	(W U).....	Emerson, Man.
Petrie, Grant A.....	(U).....	Winnipeg
Pinette, Gérard J.....	(St. B).....	Ste. Amélie, Man.
Pipe, Horace M.....	(U).....	Manitou, Man.
Plaxton, Audrey R.....	(U).....	Winnipeg
Plottel, Ben.....	(U).....	Winnipeg
Podolsky, John M.....	(XM).....	Vita, Man.
Poole, Alice E.....	(U).....	Neepawa Man.
Poole, John C.....	(U).....	Neepawa, Man.
Porteous, George C.....	(U).....	Carlyle, Sask.
Portigal, Dave.....	(U).....	Winnipeg
Presloskie, Ernest A.....	(XM).....	Valley River, Man.
Preston, Arthur M.....	(W).....	Pilot Mound, Man.
Puls, Rudy A.....	(U).....	Winnipeg
Punter, Gerald B.....	(W).....	Winnipeg
Purdy, Kermit D.....	(XM).....	Naisberry, Sask.
Queen, Gloria K.....	(U).....	Winnipeg
Quelch Christopher S.....	(XM).....	Matlock, Man.
Quinlan John J.....	(U).....	Winnipeg
Rabinovich, Shaya, B.A.....	(U).....	Winnipeg
Ralph, Keith B.....	(U).....	Neepawa, Man.
Ramsay, Allan R.....	(XM).....	Neepawa, Man.
Rankin, Lloyd C.....	(U).....	Winnipeg
Reid, David.....	(U).....	Winnipeg
Remis, Bernard.....	(U).....	Winnipeg
Remis, Leonard.....	(U).....	Winnipeg
Rennie, Lillian M.....	(W U).....	Portage la Prairie, Man.
Renix, Daniel G.....	(U).....	Winnipeg
Rex, Edna M.....	(W).....	Holland, Man.
Riehl, Lily V. A. B.....	(U).....	Winnipeg
Ripstein, Zelma.....	(U).....	Winnipeg
Ritchie, Arthur D.....	(U).....	Winnipeg
Roberts, Lewis J.....	(U).....	Norwood, Man.
Robertson, Duncan G. W.....	(XM).....	Regina, Sask.
Robertson, Harry.....	(XM).....	Winnipeg
Robinson James B.....	(W U).....	Winnipeg
Robinson, Hazel A.....	(XM).....	McConnell, Man.
Rogers, William J.....	(U).....	Winnipeg
Rosenthal, Sadye J.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Ross, William A.....	(U).....	Saskatoon, Sask.
Rumberg, Joe.....	(U).....	Winnipeg
Ruth, Roy H.....	(XM).....	Cypress River, Man.
Ruttan, George D.....	(U).....	Hamiota, Man.
Sankey, Ethel A.....	(U W).....	Waskada, Man.
Saul, Thomas A.....	(St. J).....	Winnipeg
Savoie, Léon.....	(St. B).....	St. Boniface, Man.
Sawula, Stephen, LL.B.....	(W).....	Winnipeg
Scarrow, Hartford G.....	(U).....	Regina, Sask.
Schaefer, Paul J.....	(XM).....	Plum Coulee, Man.
Schellenberg, Bernhard J.....	(XM).....	Plum Coulee, Man.
Schick, Ella G.....	(XM).....	Wawanesa, Man.
Schortinghuis, Harry H.....	(U).....	Winnipeg
Schwartz, Harold W.....	(U).....	Winnipeg
Scott, William R.....	(U).....	Winnipeg
Secter, Edith R.....	(U W).....	Winnipeg
Secter, Guay.....	(U W).....	Winnipeg
Segal, Jack.....	(XM).....	Winnipeg
Segall, Annie.....	(XM).....	Winnipeg
Sellars, Richard B.....	(W U).....	Arcola, Sask.
Selner, Rudolph.....	(U).....	Winnipeg
Serken, Anne R.....	(U W).....	Winnipeg
Shafer, Kathleen D.....	(U).....	Winnipeg
Sharp, Mitchell W.....	(XM).....	Winnipeg
Sharpe, Charles.....	(XM).....	East Selkirk, Man.
Shaw, John Leslie D.....	(U).....	Winnipeg
Shaw, Margaret A.....	(U).....	Winnipeg
Shaw, William M. W.....	(W U).....	Elm Creek, Man.
Sheps, Cecil.....	(U).....	Winnipeg
Shewan, Cameron N. W.....	(U St. J).....	Winnipeg
Shickelé, M. Florence.....	(St. B).....	Winnipeg
Sigfusson, Arthur F.....	(U).....	Mary Hill P.O., Man.
Silbert, Joseph.....	(U).....	Winnipeg
Simmons, Norman W.....	(U).....	Winnipeg
Simpson, Harold A.....	(St. J).....	Winnipeg
Sinclair, Kathleen M.....	(U).....	Winnipeg
Sirluck, Glad.....	(U).....	Winkler, Man.
Smith, Isabelle B.....	(XM).....	Winnipeg
Smith, Norman O.....	(U).....	Winnipeg
Sonley, Alma H.....	(U).....	Crystal City, Man.
Soslofsky, Mollie.....	(U W).....	Winnipeg
Souter, Agnes J.....	(XM).....	Portage la Prairie, Man.
Spence, Kathleen.....	(U).....	Winnipeg
Spence, Marjorie B.....	(U).....	Winnipeg
Sprung, B. Knox.....	(U).....	Winnipeg
Sprung, George M. C.....	(W).....	Winnipeg
Sprung, John G. B.....	(U).....	Landis, Sask.
Stachook, Bronik.....	(U).....	Winnipeg
Stanley, Robert A.....	(U).....	Cadillac, Sask.
Steiman, Manuel.....	(U).....	Winnipeg
Steinkopf, Maitland B.....	(U).....	Winnipeg
Stephens, Graham F.....	(U).....	Winnipeg
Stephens, Lillian B.....	(W).....	Wawanesa, Man.
Stephens, Lois.....	(U).....	Winnipeg
Stephenson, Signy H.....	(U).....	Winnipeg
Stewardson, Elmer R.....	(U).....	Regina, Sask.

<i>Name</i>	<i>College</i>	<i>Address</i>
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Stockhammer, Bessie.	(U)	Winnipeg
Stuart, Etelka M.	(W)	Cupar, Sask.
Stuart, Harry J.	(U)	Winnipeg
Suderman, Abram J.	(XM)	Morris, Man.
Sutherland, Amelia A.	(W U)	Holmfild, Man.
Sveinson, Christian	(U)	Bredenbury, Sask.
Swan, Robert S.	(U)	Winnipeg
Swanson, Raymond C.	(U)	Winnipeg
Tapley, Kate	(XM)	Winnipeg
Tarr, Elizabeth H.	(U)	Winnipeg
Tate, Linnie	(XM)	Winnipeg
Thompson, Winnifred E.	(St. B)	Winnipeg
Thomson, Helen E.	(XM)	Rocanville, Sask.
Thomson, Mary E.	(U)	Winnipeg
Thorson, Stephen B.	(U)	Winnipeg
Thorvaldson, T. Myrtle	(W)	Riverton, Man.
Tisdale, Paul K.	(U)	Winnipeg
Tod, Phyllis E.	(U W)	Winnipeg
Tolton, Norman E.	(U)	Winnipeg
Tony, Steve S.	(U)	Winnipeg
Tow, Harvey	(U)	Winnipeg
Truman, Mason P.	(U)	Winnipeg
Tryon, Victor W.	(U)	Winnipeg
Tuck, Helen H.	(U W)	Winnipeg
Tucker, Frederick R.	(U)	Winnipeg
Turner, James Ogden F.	(XM)	Central Butte, Sask.
Tweed, Thomas W.	(U)	Medicine Hat, Alta.
Unruh, John C.	(U)	Winnipeg
Vanular, Henry	(U)	Winnipeg
Vogel, Ruth M.	(U)	Winnipeg
Voth, Harry J.	(U)	Winkler, Man.
Waisman, Louis E.	(U)	Winnipeg
Walker, F. Janet	(U)	Winnipeg
Wallace, James F.	(XM)	Oak Lake, Man.
Ward, Winnifred M.	(U)	Winnipeg
Warren, Alfred J.	(U)	Brandon, Man.
Watterson, Margaret E.	(XM)	Winnipeg
Wawrykow, Alexander	(U)	Camp Morton, Man.
Webster, John C.	(U)	Saskatoon, Sask.
Wells, Ruth A.	(U)	Winnipeg
Werier, Sam	(XM)	Winnipeg
Werstuik, John D.	(W U)	Winnipeg
Whitteker, Clarice J. W.	(U)	Winnipeg
Whyte, James J.	(U)	Scott, Sask.
Wiebe, Mary B.	(U W)	Horndean, Man.
Wilder, Miriam L.	(U W)	Winnipeg
Wiley, Leslie W.	(XM)	Winnipeg
Wilkinson, Dorothy M.	(W)	Winnipeg
Wilkinson, Florence M.	(XM)	Winnipeg
Williams, Arthur G. S.	(XM)	Winnipeg
Williams, Mabel G.	(U)	Winnipeg
Wilson, John A.	(U)	Winnipeg
Wilson, Norma F.	(U)	Winnipeg
Winestock, Aaron J.	(U)	Winnipeg
Wolinsky, Paul I.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Wood, Bruce W. S.	(U)	Winnipeg
Wotton, Leslie M.	(U)	Cardale, Man.
Wright, Thelma	(U)	Winnipeg
Wright, H. Wilkes	(U)	Winnipeg
Wright, William A.	(W U)	Fillmore, Sask.
Wyman, Russell A.	(W U)	Winnipeg
Yacula, William V.	(XM)	Janow, Man.
Yager, Alma E.	(XM)	Pacific Junction, Man.
Yanchinski, Waldemir	(U)	Naicam, Sask.
York, Beatrice	(U)	Winnipeg
Young, Alice L.	(W)	Moosomin, Sask.
Young, Charles A. D.	(St. J U)	Winnipeg
Young, Helen G.	(U)	Winnipeg
Yuill, Jessie Wilhelmine	(XM)	Melita, Man.
Zuken, Joe	(U)	Winnipeg

SENIOR DIVISION IN ARTS AND SCIENCE

First Year—Pass

<i>Name</i>	<i>College</i>	<i>Address</i>
Allen, Allison L.	(St. B)	Roland, Man.
Anderson, Margaret S.	(XM)	Selkirk, Man.
Aquin, Clemence	(XM)	Elie, Man.
Arnason, Helga	(U)	Oak Point, Man.
Ashley, Margaret H. G.	(U)	Winnipeg
Bachun, Harold	(U)	Moose Jaw, Sask.
Bailey, Albert A.	(U)	Winnipeg
Bailey, Robert C.	(U)	Winnipeg
Barrett, John E.	(St. J)	Winnipeg
Baumgartner, John	(XM)	Winnipeg
Bay, Sarah M.	(U)	Kamsack, Sask.
Beckstead, James O.	(XM)	Crystal City, Man.
Belapolsky, Joe	(U)	Winnipeg
Belanger, Paul-Emile	(St. B)	St. Boniface, Man.
Belton, George S.	(XM)	Roblin, Man.
Benidickson, William M.	(U)	Winnipeg
Bennest, Doran C.	(U)	Hamiota, Man.
Bennett, Jane	(U)	Winnipeg
Berezynski, Metro M.	(U)	Winnipeg
Bergstrom, Hazelle R.	(W U)	Winnipeg
Birchard, Ronald E.	(U)	Winnipeg
Birt, John C.	(U)	Winnipeg
Blevins, Christabel G.	(U)	Winnipeg
Bliss, Dorothy M.	(St. B)	Winnipeg
Boas, Rollo M.	(St. J U)	Winnipeg
Bolton, Kenneth C.	(St. J)	Winnipeg
Bond, Gwendolyn	(U)	Winnipeg
Bothe, Franklin E.	(XM)	Winnipeg
Boulter, Stanley G.	(U)	Winnipeg
Boyd, E. L. Joy	(XM)	Winnipeg
Bragg, Leslie G.	(U)	Wapella, Sask.
Breadner, Frances	(XM)	Victoria, B.C.
Breadner, George	(XM)	Victoria, B.C.

<i>Name</i>	<i>College</i>	<i>Address</i>
Brock, Stanley.....	(U)	Norwood, Man.
Bulman, Lilian C.....	(U)	Winnipeg
Burzminski, Maxwell W.....	(U)	Beausejour, Man.
Cameron, Marjorie R.....	(U)	Winnipeg
Campbell, Beth V.....	(U)	Winnipeg
Campbell, Gwendolyn W.....	(U)	Winnipeg
Cantor, Ben B.....	(U)	Winnipeg
Cassidy, Mary C.....	(St. B)	Winnipeg
Chodirker, Niman N.....	(U)	Winnipeg
Clare, Anne.....	(St. B)	St. Andrews, Man.
Coates, Robert J.....	(U)	Virden, Man.
Cohen, Alvin.....	(U)	Winnipeg
Coke, Patricia.....	(U)	Winnipeg
Collins, Carl W.....	(U)	Winnipeg
Cook, Edward J. R.....	(U)	Grandview, Man.
Cousens, Grace.....	(U)	Winnipeg
Cox, Alice M. T.....	(W U)	Victoria, B.C.
Coyle, Margaret.....	(St. B)	Winnipeg
Currie, Robert Norman.....	(U)	Hamiota, Man.
Dahlgren, Dwight J. A.....	(XM)	Miniota, Man.
Dansereau, Jean V.....	(St. B)	Letellier, Man.
Dashefsky, Dora.....	(U)	Theodore, Sask.
Davison, Margaret A.....	(U)	Winnipeg
Day, J. Bruce.....	(XM)	Darlingford, Man.
Dickson, Kenneth M.....	(U)	Winnipeg
Diner, Frances B.....	(U)	Winnipeg
Donaghy, Francis E. J.....	(St. J U)	Belmont, Man.
Douglas, Esther M.....	(U)	Winnipeg
Downes, Kenneth W.....	(U)	Winnipeg
Dugal, Paul-Emile.....	(St. B)	St. Boniface, Man.
Duncan, William W.....	(U)	Winnipeg
Dunlop, William S.....	(U)	Winnipeg
Dyker, George F.....	(U)	Waskada, Man.
Easterbrook, William T.....	(U)	Winnipeg
Easton, Edythe.....	(U)	Winnipeg
Ebborn, Thomas W.....	(XM)	Cypress River, Man.
Elliott, Catherine G.....	(U)	Winnipeg
Embry, Ashton F.....	(U)	Washington, D.C.
Fahey, Irene M.....	(St. B)	Emerson, Man.
Fidler, Frank.....	(XM)	Vancouver, B.C.
Fitzpatrick, Jean.....	(U)	Winnipeg
Foster, Arthur A.....	(U)	Brandon, Man.
Foster, Hector E.....	(W U)	Winnipeg
Francis, Helen R.....	(U)	Headingly, Man.
Fraser, Charles B.....	(U)	Swan River, Man.
Frederickson, Frederick.....	(XM)	Winnipeg
Freeman, Joe.....	(U)	Winnipeg
French, Edwin F.....	(U)	Govan, Sask.
Frith, Muriel E.....	(U)	Winnipeg
Gamsby, Austin G.....	(U)	Winnipeg
Gerrie, Lorraine.....	(U)	Langbank, Sask.
George, Ernest T.....	(St. B)	St. Boniface, Man.
Gibson, James A.....	(U)	Rokeby, Sask.
Gishler, Melba.....	(U)	Winnipeg
Glinz, Agnes O.....	(W U)	Oak River, Man.
Goldring, Frank E.....	(U)	Middlechurch, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Gordon, John M.	(U)	Norway House, Man.
Gorowski, Margaret A.	(XM)	Winnipeg
Gracey, G. Phyllis	(U)	Winnipeg
Grand, Bella D.	(U)	Winnipeg
Green, L. Hart	(U)	Winnipeg
Gregory, Dorothy J.	(U)	Winnipeg
Guy, Robert E.	(U)	Winnipeg
Haid, Harold	(U)	Winnipeg
Haig, Betty	(U)	Winnipeg
Halls, Josephine L.	(U)	Winnipeg
Halparin, Archie	(U)	Winnipeg
Hammond, John A.	(U)	La Riviere, Man.
Harder, Frank J.	(U)	Altona, Man.
Harder, Linda R.	(W U)	Plum Coulee, Man.
Harland, Wesley	(W U)	Treherne, Man.
Harvey, James B.	(U)	Winnipeg
Hastings, Gladys E.	(XM)	Rouleau, Sask.
Hatch, Donald W.	(U)	Winnipeg
Hayter, Russel H.	(U)	Deleau, Man.
Hecht, Archie	(U)	Winnipeg
Helyar, Lillias M.	(U)	Winnipeg
Henderson, Wilona G.	(U)	Winnipeg
Herriot, Margaret E.	(U)	Winnipeg
Herzer, Richard W.	(W U)	Winnipeg
Heys, Ellen J.	(U)	Neepawa, Man.
Heys, Ernest S.	(XM)	Neepawa, Man.
Hibbert, H. Oswald	(W U)	Boissevain, Man.
Hiebert, Gerda L.	(U)	Winnipeg
Hillstrom, Joseph E. N.	(AI)	Wilcox, Sask.
Hodgkinson, Fred A.	(U)	Winnipeg
Hollenberg, Minna	(U)	Winnipeg
Holmes, Orville E.	(XM)	Oakville, Man.
Horn, Helen C.	(U)	Winnipeg
Hoskin, Dorothy Marjorie E.	(U W)	Winnipeg
Howden, Robert L.	(U)	Norwood, Man.
Hryhorchuk, Bill	(U W)	Ethelbert, Man.
Hunter, William J.	(U)	Winnipeg
Johannson, Harold G. P.	(U)	Winnipeg
Johnson, Herman	(U)	Winnipeg
Johnston, Margaret E.	(U)	Winnipeg
Jones, William D.	(U)	Winnipeg
Josie, Gordon H.	(U)	Winnipeg
Karg, Josephine E.	(St. B)	Winnipeg
Kernaghan, Norah M.	(U)	Winnipeg
Koganow, Rose	(U)	Winnipeg
Koltak, Murray S.	(U W)	Winnipeg
Kornelsen, Jacob G.	(XM)	Steinbach, Man.
Korny, Walter	(U)	Winnipeg
Korzyk, George	(U)	Winnipeg
Kruglikoff, Alex	(U)	Winnipeg
Lamont, Vera I.W.	(U)	Winnipeg
Lane, Harry C.	(U)	Winnipeg
Lang, Florence B.	(U)	Winnipeg
Lang, Marion	(U)	Winnipeg
Langford, Charles M.	(XM)	Russell, Man.
Laughlin, Margaret B.	(U)	Cartwright, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Lavender, Richard E.	(U)	Winnipeg
Leamen, John	(U)	Winnipeg
Leggat, Margaret	(U)	Winnipeg
Lemon, Kenneth	(U)	Winnipeg
Lesiuk, John	(XM)	Preeceville, Sask.
Leslie, James A.	(XM)	Miami, Man.
Loader, Mary Winnifred	(U)	Winnipeg
Lorenzino, Albert	(AI)	Ponteix, Sask.
Loughead, G. Yuill	(U)	Winnipeg
Lovell, Irene	(XM)	Winnipeg
Lubart, Bella	(U)	Winnipeg
McBride, Warren L.	(U)	Moose Jaw, Sask.
MacDonald, Mary A.	(St. B)	Regina, Sask.
MacEachern, Dorothy J.	(U W)	Winnipeg
McGill, Wesley S.	(U)	Neelin, Man.
McGillivray, Beth	(U)	Winnipeg
McGuirl, Kathleen E.	(XM)	Winnipeg
McInerney, Veronica J.	(XM)	Rexton, N.B.
McIntyre, Henry H.	(U)	Winnipeg
MacKenzie, Helen S.	(U)	Winnipeg
McKillican, Mary E.	(U)	Winnipeg
McLaughlin, Donald M.	(XM)	Oakville, Man.
McLuhan, Herbert Marshall	(U)	Winnipeg
McMaster, Thomas A.	(XM)	Winnipeg
McMillan, Jessy M.	(St. B)	Kirkfield Park, Man.
McPhedran, Louise	(XM)	Winnipeg
Magid, Bessie	(XM)	Winnipeg
Main, Kathleen	(U)	Winnipeg
Malcolmson, George Morton	(U)	Winnipeg
Malloy, Margaret	(St. B)	Winnipeg
Manning, Henry M.	(AI)	Truax, Sask.
Margolese, Helen	(U)	Winnipeg
Margolese, Sheppy J.	(U)	Winnipeg
Margolis, Ida	(U)	Transcona, Man.
Mark, Laura R.	(U W)	Winnipeg
Markovits, Ethel	(U)	Winnipeg
Marcovitch, Max M.	(U)	Winnipeg
Martin, Mary I.	(U)	Weyburn, Sask.
Mellish, Margaret C.	(W U)	Pipestone, Man.
Mezon, Esther A.	(U W)	Winnipeg
Millard, Frances M.	(U)	Winnipeg
Miller, Barbara J.	(W U)	Carman, Man.
Miller, Catherine L.	(U)	Winnipeg
Miller, Deborah Marjorie	(U)	Winnipeg
Miller, Eldred G.	(XM)	Souris, Man.
Miller, Irene V.	(U W)	Winnipeg
Montague, Anne I.	(U)	Winnipeg
Moore, Thelma G.	(U)	Winnipeg
Moreland, Kathleen J.	(U)	Winnipeg
Morton, William L.	(U St. J)	Gladstone, Man.
Moscovitch, Nathan A.	(U)	Winnipeg
Mudge, Dorothy I.	(U)	Kawende P.O., Man.
Murphy, Joseph E.	(XM)	Lauder, Man.
Musgrove, William Roy	(U W)	Winnipeg
Nadeau, Paul	(St. B)	Montmartre, Sask.
Neufeld, Cornelius C.	(U)	Morden, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Neufeld, George M.....	(XM).....	Winnipeg
Newton, Beatrice J.....	(U).....	Winnipeg
Newton, Vera K.....	(U).....	Winnipeg
Nichols, Graham.....	(U W).....	Winnipeg
Nix, Verlyn E.....	(U).....	Winnipeg
Norman, Elsie V.....	(U).....	Yorkton, Sask.
Nowacki, Nellie M.....	(U).....	Winnipeg
Oastler, Marguerite A.....	(W U).....	East Selkirk, Man.
O'Neill, William F. H.....	(U).....	Pilot Mound, Man.
Oretzki, Morley J.....	(U).....	Winnipeg
Orris, Ruby E.....	(U).....	Winnipeg
Ostafew, Fred A.....	(U).....	Dickens P.O., Man.
Otto, Mary I.....	(U).....	Winnipeg
Owens, Marion M.....	(XM).....	Redvers, Sask.
Palk, William L.....	(U).....	Winnipeg
Palmer, Winnifred M.....	(U).....	Winnipeg
Paterson, Barbara.....	(U).....	Winnipeg
Patrick, Arthur W.....	(XM).....	Winnipeg
Pattinson, Dick B.....	(U).....	Winnipeg
Penney, Thelma.....	(W).....	Kenora, Ont.
Pergamit, Louis D.....	(U).....	Cut Knife, Sask.
Perverseff, Nita N.....	(W U).....	Tallman, Sask.
Phillips, Netanis A.....	(U).....	Winnipeg
Pierce, Glen W.....	(U).....	Winnipeg
Pildrem, Margaret E.....	(XM).....	Winnipeg
Plotkin, Jennie.....	(U).....	Swift Current, Sask.
Popeski, Anne.....	(XM).....	Winnipeg
Popeski, Ben.....	(U).....	Winnipeg
Poulter, Louisa P.....	(U).....	Winnipeg
Pratt, Doreen L.....	(U W).....	Winnipeg
Pratt, Philip C.....	(U).....	Winnipeg
Racey, Lilian M.....	(W).....	Winnipeg
Ramsay, Hugh J.....	(W U).....	Winnipeg
Rintoul, John W.....	(U).....	Moose Jaw, Sask.
Robinson, John M.....	(XM).....	McConnell, Man.
Rogers, Jack.....	(St. J).....	Winnipeg
Ross, Alexander M.....	(U).....	Winnipeg
Ross, John F.....	(U).....	Holland, Man.
Ruhr, Casper S.....	(W).....	Killaley, Sask.
Rusen, Dorothy.....	(U).....	Winnipeg
Samis, Clarence S.....	(U).....	Arcola, Sask.
Saunderson, Corinne K.....	(U).....	Winnipeg
Sawyer, Elizabeth A.....	(U).....	Winnipeg
Schachtel, Gabriel J.....	(AI).....	Grosswerder, Sask.
Scholes, Elizabeth M.....	(XM).....	Bowsman River, Man.
Secord, Campbell.....	(U).....	Winnipeg
Segall, Alex M.....	(XM).....	Winnipeg
Segall, Mary.....	(XM).....	Winnipeg
Senesky, Sam.....	(XM).....	Winnipeg
Shafer, Kathleen D.....	(U).....	Winnipeg
Shannon, Mabel.....	(St. B).....	Winnipeg
Shaver, William H.....	(W).....	Winnipeg
Sherloski, Otto J.....	(AI).....	Langenburg, Sask.
Shline, Elizabeth.....	(XM).....	Winnipeg
Siemans, Gerard J.....	(U).....	Altona, Man.
Sigvaldason, John P.....	(XM).....	Baldur, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Silverberg, Jack.....	(U).....	Winnipeg
Simkin, David.....	(U).....	Winnipeg
Simms, Eldon F.....	(XM).....	Winnipeg
Slutsky, Nathan A.....	(U).....	Winnipeg
Smith, Elmer P.....	(U).....	Rosetown, Sask.
Snukal, Esther.....	(U).....	Winnipeg
Solstad, Alice O.....	(W U).....	The Pas, Man.
Stephenson, Dorothy M.....	(XM).....	Winnipeg
Steuart, Dorothy H.....	(XM).....	Swift Current, Sask.
Steuart, Marie.....	(XM).....	Swift Current, Sask.
Stewart, Anne.....	(U).....	Winnipeg
Stewart, John C.....	(U).....	Emerson, Man.
Sutherland, Margaret R.....	(U).....	Foxwarren, Man.
Sylvestre, Albert.....	(St. B).....	Antler, Sask.
Templeton, Helen A. M.....	(U).....	Winnipeg
Templeton, Louise J. M.....	(U).....	Winnipeg
Terry, Helen H.....	(U).....	Winnipeg
Tessler, Marcus L.....	(U).....	Winnipeg
Thompson, Muriel.....	(U).....	Winnipeg
Thomson, Margaret J.....	(W U).....	Winnipeg
Tibbatts, Clarence E.....	(XM).....	Foxwarren, Man.
Tulloch, Marjorie E. G.....	(U).....	Winnipeg
Turnbull, Wilfred E.....	(W U).....	Fillmore, Man.
Turner, Robert M.....	(U).....	Winnipeg
Tyndale, Crispin O.....	(U).....	Winnipeg
Vaisrub, Daria.....	(XM).....	Winnipeg
Wachal, Frank A.....	(XM).....	Narol, Man.
Wachna, Anthony.....	(U).....	Stuartburn, Man.
Walker, Victor.....	(St. J U).....	Winnipeg
Wallace, Marjorie M.....	(XM).....	Emerson, Man.
Wall, Joe.....	(U).....	Winnipeg
Walsh, Harry.....	(U).....	Winnipeg
Wardrop, Alice L.....	(XM).....	Winnipeg
Warkentin, Cornelius C.....	(U).....	Winnipeg
Webster, Dorothy.....	(U).....	Winnipeg
White, Annie E.....	(W U).....	Franklin, Man.
White, Ruth M.....	(U).....	Winnipeg
Whyte, Nancy.....	(W U).....	Winnipeg
Williams, David C.....	(U).....	Winnipeg
Willows, Fanny H.....	(U).....	Winnipeg
Wilton, Audrey I.....	(U).....	Winnipeg
Wiznuk, Joseph.....	(W).....	Winnipeg
Wood, Clifford C.....	(U).....	Winnipeg
Wright, Samuel A.....	(XM).....	Selkirk, Man.
Young, Kathleen M.....	(U).....	Souris, Man.

SENIOR DIVISION IN ARTS AND SCIENCE

Second Year—Pass

<i>Name</i>	<i>College</i>	<i>Address</i>
Abramson, Joe.....	(U).....	Winnipeg
Abremovich, Annette.....	(U W).....	Winnipeg
Alexander, Wilhelmina.....	(U).....	Keewatin, Ont.
Andrews, Elizabeth.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Archibald, Marion F.....	(U).....	Winnipeg
Armstrong, Mary A.....	(U).....	Winnipeg
Armstrong, Ruth V. B.....	(W U).....	Winnipeg
Avery, Henry C.....	(W).....	Winnipeg
Avery, Percy C.....	(U).....	Pense, Sask.
Baird, Barbara A.....	(U).....	Winnipeg
Baliska, Jessie M.....	(XM).....	Winnipeg
Barber, Yvonne V.....	(W).....	Underhill, Man.
Barbour, Margaret.....	(XM).....	The Pas, Man.
Barish, Florence.....	(U).....	Winnipeg
Barrett-Hamilton, Anna V. M.....	(U).....	Winnipeg
Belapolsky, Alex.....	(U).....	Winnipeg
Berry, Dorcas M.....	(U).....	Benson, Sask.
Betts, Kathleen E.....	(U).....	Winnipeg
Booth, Wilfred G.....	(XM).....	Austin, Man.
Bornoff, George.....	(XM).....	Winnipeg
Boroditsky, Minnie.....	(U W).....	Winnipeg
Bothe, John.....	(U).....	Winnipeg
Boulet, Lucien.....	(St. B).....	Dunrea, Man.
Bowman, Allan S.....	(XM).....	Waskada, Man.
Bremer, Arthur A. M.....	(U).....	Winnipeg
Brereton, Margaret.....	(XM).....	Winnipeg
Brisbin, George W. F.....	(U).....	Pilot Mound, Man.
Brittain, Sibyl J.....	(U).....	Winnipeg
Brodsky, Earle I.....	(U).....	Winnipeg
Brown, Hugh S.....	(XM).....	Winnipeg
Brown, Nettie.....	(U).....	Winnipeg
Brown, Rhoda G.....	(XM).....	Winnipeg
Brown, Wilfred G.....	(AI).....	Estlin, Sask.
Buck, Marjorie.....	(U).....	Winnipeg
Cadham, Nina B.....	(U W).....	Winnipeg
Campbell, Earle M.....	(U).....	Winnipeg
Campbell, Joan I.....	(U).....	Winnipeg
Cannon, Leslie A.....	(U).....	Winnipeg
Carmichael, Lloyd T.....	(U).....	Tisdale, Sask.
Chaikin, Clara.....	(XM).....	Winnipeg
Chalmers, John W.....	(U).....	Virden, Man.
Chasanoff, Louis.....	(U W).....	Winnipeg
Chataway, Charles R. H.....	(U).....	Winnipeg
Chestnut, Helen M.....	(U).....	Winnipeg
Clark, Isabel A.....	(U).....	Winnipeg
Clarke, William Keith.....	(W U).....	Arcola, Sask.
Comeau, Hervé.....	(St. B).....	La Salle, Man.
Conly, David.....	(W U).....	Winnipeg
Coombes, Beatrice A. F.....	(XM).....	Winnipeg
Corrigan, Richard S. Cameron.....	(U).....	Strathroy, Ont.
Coulthard, George A.....	(XM).....	Treherne, Man.
Couture, Marcieu Etienne.....	(St. B).....	St. Boniface, Man.
Couzens, Loreene M.....	(U).....	Winnipeg
Cowperthwaite, Charles H.....	(U).....	Winnipeg
Craig, Hector J.....	(U).....	Winnipeg
Crickard, Agnes S.....	(XM).....	Transcona, Man.
Crookes, Sydney.....	(XM).....	Winnipeg
Cundy, Percival.....	(XM).....	Roland, Man.
Dann, Margaret L.....	(W U).....	Deloraine, Man.
Davies, Margaret M.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Davies, Vivian L.....	(XM)	Winnipeg
Dawson, Ben T.....	(W U)	Stony Mountain, Man.
Denike, Emerson H.....	(U)	Winnipeg
Dolan, Eric J.....	(U)	Winnipeg
Donnelly, Kathleen I.....	(U)	Winnipeg
Dougall, Agnes B.....	(XM)	Winnipeg
Drew, John W.....	(W)	Keewatin, Ont.
Dunderdale, Marjorie E.....	(U W)	Winnipeg
Dyck, Isaac J.....	(XM)	Winkler, Man.
Earl, Charles E. Gordon.....	(U)	Winnipeg
Emerson, Courtney R.....	(W U)	McConnell, Man.
Farley, Helen M.....	(U)	Winnipeg
Feltham, Laura.....	(U)	Winnipeg
Ferrier, Willis R.....	(U)	Winnipeg
Fraser, Flora J.....	(U W)	Oxbow, Sask.
Freiden, Sadie.....	(U)	Winnipeg
Fromme, Gladys L.....	(U)	Kellaley, Sask.
Gamey, Frederick S.....	(W U)	Newdale, Man.
Gill, Henry M.....	(XM)	Tantallon, Sask.
Gillen, Patrick J.....	(XM)	Esterhazy, Sask.
Gilman, Bettina.....	(U)	Winnipeg
Godfrey, Paul R.....	(U)	Winnipeg
Gorowski, John F.....	(U)	Winnipeg
Gorrie, Charles K.....	(U)	Wawanesa, Man.
Gourley, Arthur R.....	(U)	Winnipeg
Graham, Edith M.....	(W)	Winnipeg
Grand, Etta.....	(U W)	Winnipeg
Guilbert, Aimé.....	(St. B)	Mariapolis, Man.
Hallgrimson, Christine V.....	(U)	Winnipeg
Hamilton, Olive A.....	(U)	Winnipeg
Hammell, Arthur M.....	(U)	Winnipeg
Hayes, Herbert O.....	(U W)	Winnipeg
Hemphill, Ieleane L. W.....	(U)	Winnipeg
Hensler, Ella D.....	(XM)	Winnipeg
Hilts, Joseph A.....	(XM)	Winnipeg
Hinchliffe, May.....	(XM)	Winnipeg
Hitchings, Isabel.....	(U)	Winnipeg
Holt, Jean E.....	(W)	Cookstown, Ont.
Hopkins, Marjorie O.....	(W U)	Hartney, Man.
Houston, Kathleen M.....	(U)	Dauphin, Man.
Hrabie, William F.....	(U)	Winnipeg
Hunt, Marion C., B.A.....	(U)	Winnipeg
Huntley, Caleb.....	(U)	Butler, Man.
Jackson, Myra I.....	(U)	Winnipeg
James, Muriel A. W., B.A.....	(U)	Winnipeg
Johnson, Edward.....	(U)	Glenboro, Man.
Johnson, Margaret E.....	(U)	Kenora, Ont.
Johnson, Norma M. L.....	(U)	Winnipeg
Kiewel, Jacobine L.....	(U)	Prince Albert, Sask.
Kilgour, John M.....	(U)	Winnipeg
King, David A.....	(U)	Winnipeg
Kippen, Margaret H.....	(W U)	Newdale, Man.
Knox, Olive E.....	(XM)	Winnipeg
Koffman, Albert A.....	(U)	Winnipeg
Korchik, William.....	(W U)	Winnipeg
La Croix, John R.....	(AI)	Tisdale, Sask.

<i>Name</i>	<i>College</i>	<i>Address</i>
Lawson, Maisie M.....	(U W).....	Winnipeg
Laxdal, Jon K.....	(XM).....	Arborg, Man.
Lear, Frances E.....	(U).....	Winnipeg
Léveillé, Jacques G.....	(St. B).....	Winnipeg
Levin, Esther.....	(W U).....	Winnipeg
Lockhart, John W.....	(U).....	Toronto, Ont.
Loucks, Florence M.....	(U).....	Winnipeg
Luginsky, Abe M.....	(U).....	Winnipeg
Lyons, Robert J. W.....	(W U).....	Winnipeg
McAteer, Jessie M.....	(W U).....	Winnipeg
McCracken, William H.....	(U).....	Winnipeg
McIntyre, Wallace H.....	(XM).....	Viriden, Man.
MacKay, Violet E.....	(XM).....	Winnipeg
MacKenzie, Margaret E.....	(U W).....	Winnipeg
MacLean, Alan H.....	(U).....	Winnipeg
McLeod, James A.....	(U).....	Winnipeg
MacLennan, David A.....	(XM).....	Montreal, P.Q.
MacMurchy, Christina.....	(XM).....	Regina, Sask.
McNevin, Joyce D.....	(U).....	Winnipeg
Magid, Ida J.....	(U W).....	Winnipeg
Malcolmsen, Hugh M.....	(U).....	Winnipeg
Manishen, Max.....	(U).....	Winnipeg
Marchant, Edwin H. J.....	(U).....	Winnipeg
Margarson, Miriam A.....	(U).....	Winnipeg
Marrin, Ruth N.....	(St. B).....	Winnipeg
Marshall, Wilma Jean.....	(U).....	Winnipeg
Martin, Arthur W. T.....	(U W).....	Winnipeg
Martin, Ethel L.....	(U).....	Winnipeg
Menzies, John H.....	(XM).....	Winnipeg
Miller, Phyllis H. G.....	(U).....	Winnipeg
Mills, Mary E. F.....	(W).....	Winnipeg
Mitchell, Grace E.....	(U).....	Winnipeg
Moffat, Harold P.....	(XM).....	Manson, Man.
Moore, Lavinia.....	(W U).....	Winnipeg
Morley, Marjorie G.....	(St. B U).....	Varsity View P.O., Man.
Morrison, John E.....	(U).....	Winnipeg
Morrow, Jack L.....	(U).....	Holland, Man.
Moyse, Adele V.....	(U).....	Winnipeg
Mustard, Helen C.....	(U).....	London, Ont.
Nichols, Alice H.....	(XM).....	Transcona, Man.
Norquay, Jacob T.....	(XM).....	Balmoral, Man.
Norquay, Tannis H. L.....	(U).....	Winnipeg
O'Neill, Ruth.....	(U).....	Winnipeg
Orde, G. Margaret.....	(U).....	Winnipeg
Palmason, Ruby.....	(U).....	Winnipeg
Paradis, Joseph A.....	(St. B).....	Dunrea, Man.
Parker, Bettie J.....	(U).....	Norwood, Man.
Parsons, Samuel J. B.....	(W).....	Winnipeg
Peters, Gerhard H.....	(XM).....	Gretna, Man.
Pickersgill, Walter F.....	(XM).....	Winnipeg
Pierce, Melville I.....	(U).....	Winnipeg
Pomfret, Wilfred R.....	(St. J U).....	Regina, Sask.
Prasow, Sadie Z.....	(U).....	Winnipeg
Prud'homme, Maurice.....	(St. B).....	Winnipeg
Rabinovitch, Lawrence.....	(U).....	Morden, Man.
Railton, Jean.....	(W U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Ray, Herbert C.	(XM)	Bellevue, Man.
Reid, Ernest H.	(XM)	Angusville, Man.
Reid, Florence M.	(W U)	Swan River, Man.
Richmond, Marjorie B.	(U)	Winnipeg
Riley, Helen W. R.	(U)	Winnipeg
Robb, David Stewart M.	(U)	Winnipeg
Robertson, Nanna M.	(U)	Winnipeg
Rodrigue, Noel	(St. B)	St. Vital, Man.
Rogers, Lily	(U)	Winnipeg
Rosen, Esther	(U)	Winnipeg
Rosner, Sollie	(U)	Lowe Farm, Man.
Ross, Mary Evelyn	(W U)	Winnipeg
Ryckman, Allan J.	(W U)	Winnipeg
Schmidt, Effie E.	(W U)	Virden, Man.
Shearer, Ronald V.	(XM)	Warrenton, Man.
Shilstra, Urquhart A.	(U)	Steinbach, Man.
Shuckett, Goldie C.	(W U)	Winnipeg
Simpson, Donovan C.	(U)	Regina, Sask.
Sinclair, Georgina S.	(XM)	Winnipeg
Smith, Lawrence S.	(XM)	Oak Lake, Man.
Smith, Lola L.	(U)	Winnipeg
Snyder, Lucy	(W U)	Winnipeg
Spice, Grace	(U)	Winnipeg
Spivack, Joe	(U)	Winnipeg
Staples, Rj.	(W U)	Grenfell, Sask.
Steindel, Ben.	(U)	Winnipeg
Stephen, John D.	(XM)	East Kildonan, Man.
Stevenson, Winnifred E.	(W U)	Boissevain, Man.
Stewart, Jean L.	(U)	Winnipeg
Stewart, Peter R.	(XM)	Antler, Sask.
Stibbard, Jack O.	(U)	Winnipeg
Stinson, Bethel H.	(W)	Melita, Man.
Stoffman, Bertha A.	(U)	Winnipeg
Stubbs, Roy St.G.	(U)	Norwood, Man.
Sweet, Weston	(XM)	Winnipeg
Thomas, John B.	(St. J U)	Winnipeg
Thompson, John E.	(W U)	Kenora, Ont.
Thordarson, Barney	(W)	Langruth, Man.
Tisdale, Frances E.	(U)	Winnipeg
Tully, John P.	(U)	Winnipeg
Waines, Ida E.	(W U)	Virden, Man.
Wallace, Helen I.	(U)	Winnipeg
Walsh, Frederick M.	(AI)	Regina, Sask.
Warkentin, Peter W.	(XM)	Plum Coulee, Man.
Watson, James K.	(XM)	Winnipeg
Watt, Helen E.	(U)	Winnipeg
Whiting, J. Fred	(U)	Winnipeg
Wiechman, Helen F.	(U)	Treherne, Man.
Wilton, Hellen L.	(U)	Winnipeg
Witt, Ernest M.	(U)	Portage la Prairie, Man.
Wolfe, Richard J.	(XM)	Winnipeg
Wolkof, John R.	(XM)	Winkler, Man.

SENIOR DIVISION IN ARTS AND SCIENCE

Second Year—Honors

<i>Name</i>	<i>College</i>	<i>Address</i>
Addison, Ruth E.....	(U).....	Winnipeg
Ayre, Charles A.....	(U).....	Winnipeg
Cohen, Harvey.....	(U).....	Winnipeg
Cryderman, Maurice W.....	(U).....	Rosebank, Man.
Dawson, Arthur S.....	(U).....	Winnipeg
Gerber, Arnold.....	(U).....	Harrowby, Man.
Guthrie, Patrick C. F.....	(U).....	Winnipeg
Hutchings, Cecil J.....	(XM).....	Portage la Prairie, Man.
Johnson, Olafur.....	(U).....	Arnes, Man.
Johnston, Stewart A.....	(U).....	Winnipeg
Katz, Lionel.....	(U).....	Winnipeg
Lerner, Hyman.....	(U).....	Winnipeg
Levi, Lewis B.....	(U).....	Winnipeg
MacKay, James K.....	(W U).....	Winnipeg
Montgomery, Margaret R.....	(U).....	Winnipeg
Newman, Jeannie.....	(W).....	Winnipeg
Pratt, Marshall C.....	(U).....	Winnipeg
Proudfoot, Gerald M.....	(U).....	Winnipeg
Robson, Frederick W.....	(U).....	Winnipeg
Slotin, Louis.....	(U).....	Winnipeg
Sprung, Luella J.....	(W U).....	Winnipeg
Thierry, Maxmilian W.....	(U).....	Winnipeg
Turnbull, Winnifred H.....	(U).....	Winnipeg
Vogel, Grace S.....	(U).....	Winnipeg
Watson, G. Grant.....	(U).....	Winnipeg
Wolfman, Maurice.....	(U).....	Winnipeg
Wylie, Jessie F.....	(U).....	Medicine Hat, Alta.
Yundak, Michael L.....	(U).....	Winnipeg

SENIOR DIVISION IN ARTS AND SCIENCE

Third Year—Honors

<i>Name</i>	<i>College</i>	<i>Address</i>
Baker, Robert W.....	(U).....	Winnipeg
Balls, Herbert R.....	(U).....	Winnipeg
Barrett-Hamilton, Geraldine M.....	(U).....	Winnipeg
Birkinshaw, Ernest A.....	(U).....	Rapid City, Man.
Bradley, Gertrude L.....	(U).....	Winnipeg
Brown, Edith M.....	(U).....	Winnipeg
Burland, Dorothy.....	(U).....	Winnipeg
Carter, Herbert D.....	(U).....	Winnipeg
Coyne, James E.....	(U).....	Winnipeg
de Jong, Katherine.....	(W).....	Winnipeg
Easton, Harry H.....	(W U).....	Winnipeg
Godfrey, Clifford T.....	(U).....	Winnipeg
Gunter, Marguerite, A.....	(U).....	Hulton P.O., Man.
Hart, Agnes S.....	(U).....	Winnipeg
Hunter, Robert F.....	(U).....	Arden, Man.
McColgan, Archibald.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
McLaren, Isobel G.....	(U)	Reston, Man.
Moore, Harold. P. H.....	(U)	Winnipeg
Preudhomme, Sybil.....	(U)	Winnipeg
Robertson, Arthur G.....	(U)	Brandon, Man.
Sheps, Louis J.....	(U)	Winnipeg
Smedley, Enid M.....	(U)	Winnipeg
Smith, Marion W.....	(U)	Winnipeg
Stillman, Harry.....	(U)	Winnipeg
Stovel, H. Vernon.....	(U)	Winnipeg
Swyers, Lawrence A.....	(U)	Carman, Man.
Turner, Elda B.....	(W)	Winnipeg
Wilson, John F.....	(U)	Dauphin, Man.

SPECIAL STUDENTS IN ARTS AND SCIENCE

First Year, Junior Division

<i>Name</i>	<i>College</i>	<i>Address</i>
Bell, Jerrold W.....	(U)	Winnipeg
Bell, Mary A.....	(U)	Winnipeg
Birchard, Carl F. J.....	(U)	Winnipeg
Bissett, Florence A., B.A.....	(U)	Winnipeg
Boroski, Louis W.....	(U)	Fort Whyte, Man.
Boys, Harold V.....	(U)	Moose Jaw, Sask.
Brown, Neil K.....	(U)	Winnipeg
Cowan, Mrs. William.....	(U)	Winnipeg
Drewe, John G.....	(U)	Winnipeg
Frison, Joseph.....	(U)	Tramping Lake, Sask.
Gillespie, Mary M.....	(U)	Vancouver, B.C.
Griffin, Frederick K.....	(U)	Winnipeg
Heap, John K.....	(U)	Selkirk, Man.
Jones, Marcus J.....	(U)	Winnipeg
Laughland, Grace D., B.A.....	(XM)	Winnipeg
Leah, Herbert M.....	(U)	Winnipeg
Majchrowicz, Edward G.....	(U)	Winnipeg
Monson, Joseph W.....	(U)	Assiniboia, Sask.
Murochowski, John.....	(U)	Winnipeg
Park, John.....	(U)	Winnipeg
Partridge, Claude M.....	(U)	Winnipeg
Plaxton, John M.....	(U)	Winnipeg
Ramsden, Jean.....	(U)	Winnipeg
Reid, William G.....	(U)	Winnipeg
Ross, Charles.....	(U)	Winnipeg
Sanderson, Thomas C.....	(U)	Kenora, Ont.
Sherstone, Ernest P.....	(U)	Winnipeg
Williams, Violet R.....	(U)	Winnipeg

Second Year, Junior Division

<i>Name</i>	<i>College</i>	<i>Address</i>
Anderson, Lilla.....	(U)	Winnipeg
Cook, Lillian I.....	(U)	Winnipeg
Dwyer, Mary J.....	(XM)	England

<i>Name</i>	<i>College</i>	<i>Address</i>
Lipkovits, Martin.....	(U).....	Winnipeg
Miller, M. Zonona.....	(U).....	Winnipeg
Stoughton, Florence E.....	(U).....	Winnipeg
Strogas, Peter.....	(U).....	Winnipeg
Weidman, R.....	(U).....	Winnipeg
Young, Mrs. F. A.....	(U).....	Winnipeg

First Year, Senior Division, Pass

<i>Name</i>	<i>College</i>	<i>Address</i>
Chess, Willie.....	(U).....	Winnipeg
Daigneau, Lillie G., M.A.....	(U).....	Winnipeg
McLean, Mary E.....	(U).....	Winnipeg
Swaffield, Mabel B.....	(U).....	Winnipeg

Second Year, Senior Division, Pass

<i>Name</i>	<i>College</i>	<i>Address</i>
McLeod, Jessie A.....	(U).....	Kenora, Ont.
Nyman, Ernest G. E.....	(U).....	Winnipeg
Woodsworth, Charles J.....	(U).....	Winnipeg

Third Year, Senior Division, Honors

<i>Name</i>	<i>College</i>	<i>Address</i>
Warren, Earle G. A., B.A.....	(U).....	Winnipeg

STUDENTS TAKING PRELIMINARY M.A. COURSES

<i>Name</i>	<i>College</i>	<i>Address</i>
Abercrombie, Carson E., B.A.....	(XM).....	Winnipeg
Diner, Clara, B.A.....	(U).....	Winnipeg
Edwards, James, B.A.....	(U).....	Whitemouth, Man.
Gillis, Sigfus V., B.A.....	(U).....	Brown, Man.
Gislason, Beatrice S., B.A.....	(U).....	Winnipeg.
Griggs, Charles W. H., B.A.....	(XM).....	Winnipeg
Hunt, Jessie D., B.A.....	(W).....	Kirkfield Park, Man.
Kahanovitch, Goldie L., B.A.....	(U).....	Winnipeg
Keith, Clarence I., B.A.....	(U).....	Winnipeg
Knowles, Stanley H., B.A.....	(U).....	Los Angeles, Calif.
Lewis, Barnet, B.A.....	(XM).....	Winnipeg
MacKenzie, Catharine S., B.A.....	(U).....	Winnipeg
Marshall, Meryl K., B.A.....	(U).....	Winnipeg
Matheson, Jean Ruth, B.A.....	(U).....	Winnipeg
Morris, Evelyn M., B.A.....	(U).....	Winnipeg
Negrych, John A., B.S.A.....	(U).....	Dauphin, Man.
Parker, Cecil V., B.S.A.....	(U).....	Togo, Sask.
Patterson, Howard L., B.S.A.....	(U).....	Boisevain, Man.
Pitblado, Edith A., B.A.....	(U).....	Winnipeg
Rogers, Clifford N., B.S.A.....	(U).....	Carberry, Man.
Sirlick, Hilda, B.A.....	(U).....	Winkler, Man.
Smaller, Jack H., B.A.....	(U).....	Winnipeg
Smalley, James B., B.A.....	(U).....	Winnipeg
Speers, Anna M., B.Sc. (H.Ec.).....	(U).....	Winnipeg

STUDENTS TAKING PRELIMINARY M.Sc. COURSES

<i>Name</i>	<i>College</i>	<i>Address</i>
Banfield, Armine F., B.Sc.	(U)	Winnipeg
Blakeman, John E., B.S.A.	(U)	Winnipeg
Brett, Edgar N., B.S.A.	(U)	Dugald, Man.
Brown, Archibald M., B.S.A.	(U)	Winnipeg
Downie, Donald L., B.Sc.	(U)	Winnipeg
Furnival, George M., B.Sc.	(U)	Winnipeg
Kidd, Howard Vincent, B.Sc.	(U)	Cupar, Sask.
McDiarmid, J. Stuart	(U)	Winnipeg
McGregor, James A., B.S.A.	(U)	Winnipeg
McLean, Donald M., B.S.A.	(U)	Reston, Man.
McMurchy, Robert C., B.Sc.	(U)	Arden, Man.
Newton, Merlin V.B., B.Sc.	(U)	Winnipeg
Ogryzlo, Stephen P., B.Sc.	(U)	Winnipegosis, Man.
Pickersgill, Thomas B., B.S.A.	(U)	Winnipeg
Shepherd, Frank D., B.Sc.	(U)	Winnipeg
Solomon, Ernest, B.Sc.	(U)	Dauphin, Man.
Whiteman, Robert, B.S.A.	(U)	Winnipeg
Yanick, Nicholas S., B.Sc.	(U)	Oakburn, Man.

MASTER OF ARTS

<i>Name</i>	<i>Address</i>
Barbour, Harold D. (B.A., LL.B., Man.)	Winnipeg
Bill, William (B.A., Man.)	Pilot Mound, Man.
Boiteau, Caroline (B.A., Man.)	Winnipeg
Brock, Clifford W. (B.A., LL.B., Man.)	East Kildonan, Man.
Bucknam, Hazel M. (B.A., Man.)	Winnipeg
Churchill, Gordon M. (B.A., Man.)	Dauphin, Man.
Clark, John N. (B.A., Man.)	Selkirk, Man.
Conrod, Stuart F. (B.A., Sask.)	Winnipeg
Cooper, Mabel (B.A., Man.)	West Kildonan, Man.
Cox, Alexander (B.A., Man.)	Sioux Lookout, Ont.
Crocker, Linden J. (B.A., Queen's)	Winnipeg
Feist, Nicodemus M. (D.D., Ph.D., Rome)	Winnipeg
Fraser, Jessie M. (B.A., Man.)	Morris, Man.
Gillis, Sigfus V. (B.A., Man.)	Winnipeg
Gunn, Robert R. (B.A., B.S.A., Man.)	Winnipeg
Guthrie, John A. (B.A., Man.)	Winnipeg
Hall, A. Roland (B.A., Man.)	Winnipeg
Hoole, Arthur H. (B.A., Man.)	Winnipeg
Hunt, Jessie Doris (B.A., Man.)	Kirkfield Park P.O., Man.
Ison, Francis J. (B.A., Man.)	Boissevain, Man.
Johnston, Edna R. (B.A., Man.)	Winnipeg
Lyall, Margaret A. (B.A., Man.)	Winnipeg
MacGregor, Isabel C. (B.A., Man.)	Winnipeg
Macleod, Marjorie K. (B.A., Man.)	Winnipeg
McLeod, Daniel R. (B.A., LL.B., Man.)	Winnipeg
Megaffin, Blanche I. (B.A., Man.)	Winnipeg
Mingay, Henry G. (B.A., Man.)	Winnipeg
Murray, Margaret (B.A., Man.)	Winnipeg
Mutch, Leslie A. (B.A., Man.)	Winnipeg

<i>Name</i>	<i>Address</i>
Negrych, John A. (B.S.A., Man.).....	Dauphin, Man.
Norris, Ivor A. (B.A., Man.).....	Russell, Man.
O'Neill, Ada G. (B.A., Man.).....	Winnipeg
Parker, Cecil V. (B.S.A., Man.).....	Togo, Sask.
Patterson, Howard L. (B.S.A., Man.).....	Boissevain, Man.
Riddle, Victor N. (B.A., Man.).....	Winnipeg
Roberts, Hugh A. (B.A., Man.).....	Winnipeg
Rogers, Clifford N. (B.S.A., Man.).....	Carberry, Man.
Simms, Frederick W. (B.A., Man.).....	Winnipeg
Singleton, Wilfred B. (B.A., Man.).....	Hay River, N.W.T.
Speers, Anna M. (B.Sc. in H.Ec., Man.).....	Winnipeg
Spice, Mary (B.A., Man.).....	Stonewall, Man.
Sullivan, Kathleen C. (B.A., Man.).....	Winnipeg
Tallin, Clive K. (B.A., Man.).....	Winnipeg
Vopnfjord, Axel (B.A., Man.).....	Sanford, Man.

MASTER OF SCIENCE

<i>Name</i>	<i>Address</i>
Boughton, Rex V. (B.Sc., Man.).....	Winnipeg
Emerson, Robert A. (B.Sc. in C.E., Man.).....	Winnipeg
Gunn, Charles K. (B.Sc., Man.).....	Winnipeg
Hoogstraten, Jack (B.Sc. in C.E., Man.).....	Winnipeg
Lyons, E. May (B.Sc., Man.).....	Winnipeg
Mar, Andrew (B.Sc. in C.E., B. Sc. in E.E., Man.).....	Winnipeg
McLean, Donald M. (B.S.A., Man.).....	Reston, Man.
Petursson, Hannes J. (B.Sc. in C.E., Man.).....	Winnipeg
Riddell, William F. (B.Sc. in C.E., Man.).....	Winnipeg
Ross, Donald K. (B.Sc., Man.).....	Winnipeg
Solomon, Ernest (B.Sc., Man.).....	Dauphin, Man.
Striowski, John B. (B.Sc. in C.E., Man.).....	Winnipeg
Tweedie, Audrey S. (B.Sc., Man.).....	Ottawa, Ont.
Winkler, Carl A. (B.Sc., Man.).....	Winnipeg

DOCTOR OF PHILOSOPHY

<i>Name</i>	<i>Address</i>
Bajkov, Alexander (Ing.Agr.,Brunn;M.Sc.,Man.)..	Winnipeg
Dowding, E. Silver (B.Sc., M.Sc., Alberta).....	Winnipeg
Frank, Solomon (B.A.,LL.B.,Buffalo;M.A.,Man.)..	Winnipeg

PHARMACY

<i>Name</i>	<i>First Year</i>	<i>Address</i>
Brathwaite, Frank W. B.....		North Bay, Ont.
Camnitsky, Leon.....		Winnipeg
Cherniack, Harry.....		Winnipeg
Cochrane, Gordon R.....		Brandon, Man.
Cohen, Max C.....		Winnipeg
Coleman, Richard E.....		Killarney, Man.
Comte, James H.....		Portage la Prairie, Man.

<i>Name</i>	<i>Address</i>
Conner, Walter R.....	Morden, Man.
Cumming, Alvin W.....	Manitou, Man.
Dodds, Violet M.....	St. Vital, Man.
Good, Harry A.....	Winnipeg
Hasinoff, Earl I.....	Winnipeg
Hawthornth, Eric.....	Winnipeg
Hood, Edmund A.....	Roseisle, Man.
McMorran, Gordon L.....	Souris, Man.
Negrych, Alexander.....	Winnipeg
Prismall, Spencer G.....	Carman, Man.
Rafferty, Harold J.....	Winnipeg
Reid, George K.....	Winnipeg
Sample, Duncan M.....	Rapid City, Man.
Sinclair, Mary I.....	The Pas, Man.
Tadman, Norman.....	Winnipeg
Williamson, Duncan W. G.....	MacGregor, Man.
Wise, Richard A.....	Winnipeg

PHARMACY

Second Year

<i>Name</i>	<i>Address</i>
Beroskin, Abram.....	Winnipeg
Bookman, Israel.....	Winnipeg
Boyd, John A.....	Winnipeg
Brandon, Henry G. F. V.....	Sioux Lookout, Ont.
Burkett, George A.....	Winnipeg
Crane, Lillian J.....	Brandon, Man.
Cunningham, Percy S.....	Winnipeg
Duncan, David S.....	Brandon, Man.
Ericksen, Clifford N.....	Kenora, Ont.
Fenwick, Herbert.....	Winnipeg
Geller, Harry.....	Winnipeg
Gilhuly, George M.....	Selkirk, Man.
Jeffries, Maurice A.....	Winnipeg
Johnson, Byron K.....	Minnedosa, Man.
Leclerc, J. Arthur.....	St. Boniface, Man.
Merrett, John M.....	Winnipeg
Milloy, Malcolm.....	Wawanesa, Man.
Moffat, James H.....	Portage la Prairie, Man.
Moroz, V. Walter.....	Winnipeg
Oakes, George P.....	Winnipeg
Ozero, Theodore J.....	Winnipeg
Park, Halsey A.....	Winnipeg
Saidman, Samuel.....	Winnipeg
Schwartz, Andres O.....	Winnipeg
Wade, Francis.....	Norwood, Man.
Whyte, John H.....	Winnipeg

EXTENSION COURSES IN COMMERCIAL SUBJECTS

(The address in each case is Winnipeg)

Allan, Grace A.	Fraser, George L.
Alty, Kathleen H. D.	Gerrie, Charles
Amos, Gwendoline	Gilchrist, Ruby
Argue, Ingle E.	Giroux, Evelyn M.
Arnott, George H.	Glover, Doris
Bardal, Halldor S.	Graham, Tom
Barnes, Leslie G.	Gresham, Alfred J.
Barnett, Eric O. M.	Grundy, John
Beal, Frederic W. R.	Haddock, Frank
Bears, Hazel V.	Hales, Frances M.
Bears, Lavina M.	Harper, Edith C.
Beck, Lillian	Hawkins, Osborne E.
Bell, Cecil	Hercus, James
Black, Alexander	Hernicke, George
Blumes, Cecille	Herron, Minnie
Bowerman, Morgan H.	Hetherington, Robert
Boyd, James D.	Hogg, Leslie J.
Bradstock, Clarence E.	Hopper, K. M.
Broughton, John H. K.	Horne, M. Gordon
Brownell, Lawrence E.	Horne, Muriel L.
Bruce, Lloyd A.	Hudson, Ina
Buchanan, Alexander B.	Hunt, Irvin T.
Burritt, James F.	Hurley, Norman
Burstow, Stanley	Hutchison, Isabel F.
Butler, Arthur W.	Hutchinson, Jack
Cameron, Duncan A.	Hutsell, R. D.
Carlyle, William M.	Hyslop, James S.
Carmichael, Hazel	Illsey, T. H. J.
Chase, R. Darwin	Jacks, William R.
Chataway, Gerald C.	Jackson, Daisy
Clark, J. Hardie	James, Douglas G.
Clark, James A.	Jickling, Gladys
Clubb, James E.	Jones, Harold O.
Collett, Gerald J.	Jones, Sidney
Congalton, Frances L.	Jordan, Mary
Coutts, William K.	Joscelyn, Stanley S.
Cox, Eunice	Judd, Edward
Crabb, Ruby	Keays, Stewart A.
Crombie, Marjorie	Keeley, James F.
Daly, Kathleen M.	Kemel, Gordon
Deering, Laurence D. E.	Kennedy, Robert
Doctor, J. T.	Ketter, John
Domey, A.	Kristensen, Clark M.
Dott, R. M.	Lane, Mary A.
Dowdall, Leo J.	Lang, Fred A.
Driscoll, R. J.	Lawson, David J.
Dunlop, Herbert A.	Lazare, Betty
Dunwell, Raymond	Lee, L. M.
Edgar, Sidney C.	Lewis, Frank R.
Falconer, David R.	Lovell, George F.
Fallis, Allan T.	Lyle, Alexander
Felten, Evelyn M.	McCance, Robert J.
Fenton, Edward C.	McCaskill, Kenneth
Fletcher, Robert V.	MacDougall, Gordon P.
Fox, Vernon E.	MacEarchern, Norman A.

- McFee, James G.
 McGavin, Percy E.
 McIntosh, George L.
 McKay, Milton E.
 McKenzie, James
 MacLean, Neil R.
 McLean, Steven A.
 MacLeod, Helen
 McMurray, William G.
 McNeill, Sadie
 McNiven, John
 Marantz, Hymie
 Mawhinney, Clara
 Meech, Gervas R.
 Meers, Arthur
 Meers, Margery
 Meyer, Mabel
 Miller, Howard P.
 Mills, George
 Milne, S. M.
 Moir, Grace L.
 Monk, Arthur J. B.
 Moore, B. C. W.
 Morison, John S.
 Morrison, Mary G.
 Munroe, F. Aileen
 Munroe, Jack E.
 Murkar, A. E. Clarke
 Musgrove, Marjorie M.
 Nason, Francis L.
 O'Brien, John F.
 Ormiston, Harold E.
 Oswald, Archibald M.
 Paget, Arnold
 Parsons, Denis S. G.
 Pawlett, T. C.
 Payne, Norman W.
 Perry, Harold E.
 Petursson, Margret
 Pope, Leslie E.
 Poyntz, Thomas D.
 Purslow, W. R.
 Read, Charles A.
 Reece, Charles E.
 Reed, Dorothy
 Reed, Frank B.
 Reeve, Kathleen M.
 Robertson, Dorel
 Robertson, Flora
 Romalis, Dorothy
 Rothwell, W. Stanley
 Routley, C. W.
 Rubin, Bernard
 Russell, D. H.
 Sandell, Godfrey
 Saunders, Isabella
 Scanes, Richard C.
 Schofield, Harry
 Scott, Anne
 Scott, Stanley L.
 Sharpe, Edward H.
 Shelly, John J. C.
 Shepherd, David
 Simpson, Alexander J. R.
 Sinclair, T. F.
 Skalazoob, Mary
 Smith, Alice B.
 Smith, Charles D.
 Smith, John D.
 Smith, Mark W.
 Smith, Ronald
 Snidal, Christian
 Sprague, Daniel
 Stachook, Bronik
 Stainton, Gladys
 Steele, James V.
 Steinhoff, Guy S.
 Stenshorn, Edward F.
 Steven, David A.
 Stewart, Vernon W.
 Strange, Henry
 Sutherland, Ken. W.
 Swanson, John A.
 Taylor, Alix
 Taylor, Ernest D.
 Taylor, J. A.
 Taylor, James W.
 Thompson, Esther
 Thomson, Price E.
 Thomson, Robert G.
 Torgan, Harold D.
 Tweedie, Charles D.
 Urch, Leonard G.
 Ure, Allan M.
 Vale, Ronald
 Van Diggelen, A. H.
 Vining, Lorna S.
 Waters, Ashton D.
 Watt, George T.
 Watson, Sydney K.
 Wirth, John C.
 Walker, Gertrude
 Whiteford, William
 Wilson, Norman R.
 Wilson, Mary
 Wilson, Ronald F.
 Wish, John F.
 Wolch, Samuel K.
 Wood, Douglas
 Young, David
 Young, Isabel
 Young, Vernon G. F.
 Young, William

EXTENSION COURSE IN GEOLOGY

Ashbridge, Sydney J.	Laberge, A. V.
Barrie, Robert G.	Laidlaw, Charles W.
Batthey, George M.	Lapraik, Thomas
Bell, William	Larson, Herman
Bonham, R. H.	Leckie, D. A.
Burgoyne, Roderick S.	McBean, Jeannetta M.
Burgoyne, Joseph H.	McLarnon, William
Burke, Ida	Mackinnon, Duncan
Casey, Marjorie	Morgan, Trevor
Campbell, A. M.	Morrow, Thomas
Cash, William	Paquin, Albert
Colcleugh, Victor D.	Patterson, W. B.
Danylchuk, Nicholas	Pickup, Sidney
Davis, Mrs. E.	Piggot, A. B.
Denike, Lyell R.	Price, Verne G.
Denike, W. N.	Radcliffe, William
Dick, J. L.	Redweik, Jakob
Downie, Robert F.	Rogers, Joseph S.
Dunderdale, John E.	Short, John A.
Egan, Charlotte J.	Sisler, W. J.
Fallis, F. N.	Spence, Cecil C.
Fryer, Ralph	Stokes, Percy H.
Griffin, Aylmer	Sutherland, Arthur
Grusz, Frederick C.	Todhunter, J.
Hall, Thomas W.	Tulikanen, George
Harding, Edward W.	Walker, James
Hargrave, Claude H.	Wallace, Ida
Hargrave, Harold J.	Watt, Etta
Hicks, A. Lyell	Webster, S.
Hini, Herman	Weeks, Clifford
Houston, James	Whimster, Earl
Jones, Leslie	Williams, Albert
Kent, J. C.	Willis, J. H.
Kernaghan, E. B.	Wilson, Charles F.
Kerr, Clarence L.	Wilson, Walter
Kossman, H.	Wonnacott, Janet C.

SUMMARY OF REGISTRATION

May 1st, 1930—April 30th, 1931

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Junior Division in Arts and Science			
First Year.....	347	128	475
Second Year.....	367	247	614
	<hr/> 714	<hr/> 375	<hr/> 1089
Senior Pass Division in Arts and Science			
First Year.....	158	148	306
Second Year.....	117	110	227
	<hr/> 275	<hr/> 258	<hr/> 533
Senior Honors Division in Arts and Science			
Second Year.....	21	7	28
Third Year.....	17	12	29
	<hr/> 38	<hr/> 19	<hr/> 57
Preliminary M.A. Courses.....	13	11	24
Master of Arts.....	29	15	44
Preliminary M.Sc. Courses.....	18	.....	18
Master of Science.....	12	2	14
Doctor of Philosophy.....	2	1	3
	<hr/> 1101	<hr/> 681	<hr/> 1782
Total, Arts and Science.....			
Pharmacy (Diploma Course)			
First Year.....	22	2	24
Second Year.....	25	1	26
	<hr/> 47	<hr/> 3	<hr/> 50
Medicine			
First Year.....	77	8	85
Second Year.....	63	5	68
Third Year.....	38	7	45
Fourth Year.....	44	1	45
Fifth Year.....	47	2	49
Postgraduate.....	5	.....	5
	<hr/> 274	<hr/> 23	<hr/> 297
Law			
First Year.....	19	2	21
Second Year.....	23	1	24
Third Year.....	15	1	16
Fourth Year.....	14	1	15
	<hr/> 71	<hr/> 5	<hr/> 76
Engineering			
First Year.....	129	.....	129
Second Year.....	99	.....	99
Third Year (Civil).....	24	.....	24
Third Year (Electrical).....	34	.....	34
Fourth Year (Civil).....	20	.....	20
Fourth Year (Electrical).....	25	.....	25
	<hr/> 331	<hr/>	<hr/> 331

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Architecture			
First Year.....	16	.....	16
Second Year.....	2	.....	2
Third Year.....	11	1	12
Fourth Year.....	11	.....	11
	<hr/>	<hr/>	<hr/>
	40	1	41
Agriculture (Diploma Course)			
First Year.....	19	.....	19
Second Year.....	12	.....	12
Third Year.....	9	.....	9
	<hr/>	<hr/>	<hr/>
	40	.....	40
Agriculture (Degree Course)			
First Year.....	15	.....	15
Second Year.....	22	.....	22
Third Year.....	25	.....	25
Fourth Year.....	14	.....	14
	<hr/>	<hr/>	<hr/>
	76	.....	76
Home Economics (Diploma Course)			
First Year.....	.....	8	8
Second Year.....	.....	9	9
	<hr/>	<hr/>	<hr/>
	.....	17	17
Home Economics (Degree Course)			
First Year.....	.....	49	49
Second Year.....	.....	36	36
Third Year.....	.....	29	29
Fourth Year.....	.....	22	22
	<hr/>	<hr/>	<hr/>
	.....	136	136
Total.....	1980	866	2846
Duplicates.....	7	.....	7
	<hr/>	<hr/>	<hr/>
Net Total, Regular Courses.....	1973	866	2839
Manitoba Summer School, 1930.....	358	529	887
Extension Courses—			
Geology.....	64	8	72
Commercial.....	169	54	223
Short Courses in Agriculture and Home Economics.....	102	4	106
	<hr/>	<hr/>	<hr/>
Total.....	2666	1461	4127
Duplicates (Summer School and regular Session).....	138	161	299
	<hr/>	<hr/>	<hr/>
Net Grand Total.....	2528	1300	3828

UNIVERSITY OF MANITOBA ALUMNI ASSOCIATION

This Association is a voluntary organization of graduates of the University of Manitoba, who aim to give practical expression to the desire of all graduates to help the University interpret its function to the community at large and to maintain in its graduates a spirit of loyalty to and interest in their University.

In co-operation with other University bodies, the Association plans for and carries out the Annual "Home-Coming" for graduates. The popularity of this event grows annually and the one to be held in the fall of 1931 promises to be the most successful yet held.

The quarterly, which is the official publication of the Association, is mailed free to members. Through this medium a spirit of unity amongst a scattered graduate body is preserved.

The annual membership fee is \$2.00, the largest proportion of which sum is of course used in the publication of the Quarterly.

OFFICERS AND DIRECTORS, 1930-1931

<i>Honorary President</i>	Isaac Pitblado, K.C., LL.D.
<i>President</i>	E. B. Pitblado, B.A. (Oxon), LL.B.
<i>Vice-President</i>	W. A. Kennedy, B.S.A.
<i>Honorary Secretary</i>	D. Harry Young, B.A., LL.B.
<i>Treasurer</i>	F. W. Bamford, B.A., LL.B.
<i>Editor of Quarterly</i>	J. A. M. Edwards, M.A.

Directors—F. W. Bamford, D. R. Bennett, Colin F. Black, Dr. Geo. M. Brownell, Dorothy Bulman, J. A. M. Edwards, Dr. E. T. Etsell, E. Gurney Evans, F. R. Garland, A. L. Ham, C. R. Hopper, W. A. Kennedy, C. S. Landon, E. B. Pitblado, Dr. H. Popham, Winnifred Puttee, Llewellyn S. Reyecraft, G. S. Rutherford, Bjorn Stefansson, D. H. Young, N. Zimmerman.

Office of Secretary: Ground Floor, Confederation Life Building.

Office of Quarterly: University of Manitoba.

CANADIAN OFFICERS' TRAINING CORPS

University of Manitoba Contingent

After a period of useful service in supplying trained officers and men for the C.E.F. during the Great War, the Manitoba Contingent of the C.O.T.C. was re-organized, and established on a four-company basis, during the Autumn of the 1919-20 session.

The C.O.T.C. is a unit of the non-permanent Active Militia, but forms no part of the organization for war, and cannot be called out for active service as such. Its primary object is to provide students at Universities with a standardized measure of military training with a view to their qualifying for commissions in the country's auxiliary forces, to enable them to give personal service to their country with the least possible interference with their civil careers, to ensure that Militia units have their establishments complete in the junior commissioned ranks, and to build up an adequate reserve of scientifically trained officers who have completed a period of consecutive and systematic military training, on academic lines, of a nature calculated to produce good officers.

In the Manitoba Contingent this training is carried out by officers and N.C.O.'s attached from the Permanent Force of M.D. No. 10, who work in the closest co-operation with the officers and N.C.O.'s of the unit.

To qualify as "efficient" a member of the Contingent must attend 40 parades if in his first year of service, and 25 if in a subsequent year, and must complete the prescribed course of musketry. He may then continue his training during the following year and present himself in March at the examination for Certificate "A" (Lieutenant's). If successful in this examination he may, after a further year's training, take the examination for Certificate "B" (Captain's). These examinations are conducted by the War Office, London, and are the same for all contingents of the O.T.C. throughout the Empire.

Members of the C.O.T.C. are supplied with a free issue of uniforms, and receive pay in proportion to the number of days devoted to training.

Apart from the military and physical training and the musketry instruction (conducted as far as possible during the Autumn on the St. Charles Rifle Range), there are special features of a social nature held under the auspices of the O.T.C. such as the annual dinner and dance, the annual smoker, etc., which afford facilities for the members to become acquainted with one another.

Training is offered in two branches of the Service, the Infantry and the Medical. The contingent has been organized as an Infantry Battalion since 1919, and in 1928 the organization of a Medical Company was authorized.

Since reorganization 183 have qualified for Certificate "A" Infantry and 53 for Certificate "B" Infantry. Since the organization of the Medical Company 35 have qualified for Certificate "A" Medical and 5 for Certificate "B" Medical. In March, 1931, 45 members wrote their Certificate "A" and "B" examinations in both Infantry and Medical.

In the past eight years the Unit has supplied the following officers to the Permanent Force of Canada:

Pilot Officer C. M. Anderson.....	R.C.A.F.
Pilot Officer R. Slemon.....	R.C.A.F.
Lieut. H. D. Cluff.....	R.C.C.S.
Lieut. W. E. Leppard.....	R.C.C.S.
Lieut. H. A. Young.....	R.C.C.S.
Lieut. K. C. McCullagh.....	R.C.C.S.
Pilot Officer W. D. Van Vliet.....	R.C.A.F.
Pilot Officer H. M. Kennedy.....	R.C.A.F.
Pilot Officer J. H. Ferguson.....	R.C.A.F.
Pilot Officer Geo. Kimball.....	R.C.A.F.

There is no doubt that further commissions will be granted in the future.

The organization of the University of Manitoba Contingent C.O.T.C. during the 1930-1931 session was as follows:

Officer Commanding.....	Lt.-Col. E. P. Fetherstonhaugh, M.C.
Second in Command.....	Major R. F. Argue
Adjutant.....	Captain C. L. McGowan
Quartermaster.....	Lieut. C. H. Cowperthwaite
Paymaster.....	Capt. H. P. Armes
Medical Officer.....	Lieut. C. Neilson, C.A.M.C.

"A" Company
(*Arts and Science*)

2nd Lt. H. P. H. Moore
2nd Lt. H. Haid
2nd Lt. L. H. Green

"B" Company
(*Engineering*)

Capt. W. F. Riddell
Lt. W. M. Murray
Lt. G. M. Lyon
2nd Lt. E. J. Simmons
2nd Lt. H. C. H. Rutledge
Lt. F. H. D. Ellis (Attached)

"C" Company
(*Medical*)

Major W. H. Secord, M.C. (Attached)
Lt. G. D. Saxton
Lt. C. G. Wood
2nd Lt. T. G. Caunt
2nd Lt. M. Carleton
2nd Lt. E. L. H. Ellis (Attached)

"D" Company
(*St. John's College*)

Capt. H. G. Walker
2nd Lt. K. C. Bolton
2nd Lt. F. J. Boyd
2nd Lt. A. E. Smith

STUDENT ORGANIZATIONS

University of Manitoba Students' Union Council, 1931-32

President.....	William L. Morton
Vice-President.....	Elswood Guy
Secretary.....	W. D. Whyte
Treasurer.....	R. H. Little
Assistant Treasurer.....	H. C. Spence
Local Secretary for National Federation of Canadian University Students.....	To be appointed

College or Faculty Representatives

	<i>Senior Representative</i>	<i>Junior Representative</i>
Arts.....	R. E. Guy	D. G. Renix
Science.....	A. S. Dawson	H. C. Lane
Engineering.....	H. H. C. Rutledge	K. H. B. Bjerring
Law.....	W. J. Goodall	A. K. Dysart, Jr.
Medicine.....	W. D. Whyte	J. S. Anderson
Pharmacy.....	G. L. McMorran	To be appointed
St. John's College.....	A. E. Smith	J. E. Barrett
United Colleges.....	H. J. Harland	G. B. Box
Accountancy.....	J. G. McFee	C. W. Routley

Additional Members—W. J. Spence, B.A. (University Council), L. S. Reycraft (Athletic Directorate), S. Freedman (Debating Union), Campbell Secord (Dramatic Society), Miss D. I. Mudge (Glee Club), G. E. Sharpe (Social Committee), Miss B. Newton (Women's Committee), E. M. Cohen (Editor of *Manitoban*), Morton Malcomson (Editor of Year Book), A. A. Klass (Editor of Telephone Directory).

University of Manitoba Athletic Directorate, 1931-32

President.....	L. S. Reycraft
Vice-President.....	Robert H. Tarr
Secretary.....	Warren W. Miller

Stewart Musgrove, Grant Watson, N. J. MacMillan, Don Campbell, N. M. MacGregor, Frank MacDonald, Sheldon Arnett, Ken Dickson, Harold Stinson, Norman Johnstone, John Little, Harry Whitley, Wray Youmans, Professor O. T. Anderson and Harry Young.

University of Manitoba Debating Union Executive, 1931-32

Honorary President	Prof. H. N. Fieldhouse
President.....	Samuel Freedman
Vice-President.....	Lloyd G. Stinson
Secretary.....	R. Elswood Guy
Treasurer.....	Gerda Hiebert
Senior Treasurer.....	W. A. Cuddy
Junior Librarian.....	A. E. Smith
Senior Librarian.....	Prof. R. W. Moffat
Publicity Manager.....	William L. Palk
Sergeant-at-Arms.....	Max Cohen

Faculty Representatives: One from each Faculty.

University of Manitoba Dramatic Society Executive, 1931-32

Honorary President.....	Mrs. C. P. Walker
President.....	Campbell Secord
Vice-President.....	William Graham
Secretary.....	Paul Wolinsky
Student Representatives.....	Beatrice Young, John Howorth
Faculty Representatives.....	Corrine Saunderson (Arts), Wesley Harland (United Colleges), William Trott (Engineering), T. W. Tweed (Science), John McQuarrie (M.A.C.), J. Nylander (St. John's)
Faculty Members.....	Professors H. N. Fieldhouse, R. F. Jones, A. J. Perry
University Council Representatives.....	Professor A. L. Phelps

University of Manitoba Glee Club Executive, 1931-32

Honorary President.....	Mrs. Edith Sinclair
President.....	Dorothy Mudge
Vice-President.....	Hubert Fanshaw
Secretary-Treasurer.....	Howard Spence
Librarian.....	Wilkes Wright
Concert Master.....	Gwen Campbell
Faculty Members.....	Professors Wright, Allison, Wardle
Representative of University Council.....	Professor A. J. Perry

University of Manitoba Student Christian Movement, 1931-32

Honorary President.....	Dr. G. B. King
President.....	George F. Dyker
Vice-President.....	Dorothy Despard
Treasurer.....	K. C. Bolton
Secretary.....	Eileen Talbot-Crosbie

Representatives from the Various Faculties—Lillian Racey, H. J. Harland, Dorothy Sarsfield, D. Fletcher, Corinne Saunderson, Carl Williams, Alex. Calder, Lionel Barker, Gordon Josie, Olive Dennison, Brock King, Robert Little, Stanley Knowles.

University of Manitoba Arts' Students Council, 1931-32

Senior Stick.....	William Benedickson
Lady Stick.....	Betty Haig
Vice-Stick.....	Elswood Guy
Secretary.....	Jane Bennett
Treasurer.....	Youill Loughheed
Senior U.M.S.U. Representative.....	Elswood Guy
Junior U.M.S.U. Representative.....	Dan Renix
President of Debating.....	Bill Palk
President of Dramatics.....	Corrine Saunderson
President of Social Committee.....	Richard Pattinson
President of Women's Athletics.....	Kay Young
President of Women's Self-Government.....	Marion Lang
President of Men's Athletics.....	Ken Dickson
President of Men's Club.....	Harry McIntyre
Fifth Year Representative.....	Maurice Cryderman
Fourth Year Representative.....	Elswood Guy
Third Year Representative.....	Blair Ferguson
Second Year Representative.....	Claude Isbister
First Year Representative.....	To be elected

University of Manitoba Menorah Society, 1931-32

President.....Solomon Kane

University Arts Men's Executive, 1931-32

President of Men's Club.....	Harry McIntyre
President of Athletics.....	Ken Dickson
Secretary-Treasurer.....	To be elected
Director of Track.....	Bob Perry
Director of Tennis.....	Morton Malcolmson
Director of Basketball.....	Jim Harvey
Director of Soccer.....	T. Easterbrook
Director of Rugby.....	Dave Kilgour
Director of Hockey.....	Bud Harbottle
Director of Curling.....	Claude Isbister
Director of Swimming.....	Dick Breen
Director of Golf.....	Blair Ferguson
Fifth Year Representative.....	Marshall Pratt
Fourth Year Representative.....	Harry McIntyre
Third Year Representative.....	Sheldon Arnett
Second Year Representative.....	Forbes Rankin
First Year Representative.....	To be elected

University Arts Women's Executive, 1931-32

Senior Executive

Lady Stick.....	Betty Haig
Vice-President.....	Irma Malcolm
Secretary-Treasurer.....	Jane Bennett
President of Athletics.....	Kay Young
President of Self-Government.....	Marion Lang
President of Student Christian Movement.....	Corinne Sunderson
General Co-ed Representative.....	Louise Halls

Junior Executive

President.....	Beatrice Young
Secretary-Treasurer.....	Margaret Beattie
General Representative.....	To be elected

University Arts Self-Government Committee (Women's), 1931-32

President.....	Marion Lang
Fourth Year.....	Gwen Campbell, Beth McGillivray, Lillian Bulman and Louise Halls
Third Year.....	Jean McKay, Marjorie Craig
Second Year.....	Frances Arnett and Mary Millman
First Year.....	To be elected

University Arts Student Christian Movement (Women's), 1931-32

President.....	Corinne Saunderson
Vice-President.....	Helen Tuck
Council Representative.....	Dorothy Despard
Treasurer.....	Margaret Beattie
Secretary.....	To be elected
Social Service Representative, Fourth Year.....	Marjorie Hoskin
Social Service Representative, Third Year.....	Marjorie Gordon
Social Service Representative, Second Year.....	Jane Humphrys
Social Service Representative, First Year.....	To be elected

University Class Executives, 1931-32

Fifth Year

President.....	Maurice Wolfman
Vice-President.....	Grace Fogel
Secretary-Treasurer.....	Lionel Katz
Arts Council Representative.....	Maurice Cryderman
Social Council Representative.....	Ruth Addison
Dramatic Council Representative.....	Winnifred Turnbull
Debating Council Representative.....	Max Thierry
Men's Club Representative.....	Arnold Gerber
Men's Athletic Council Representative.....	Marshall Pratt
Women's Athletic Council Representative.....	Margaret Montgomery
Manitoban Council Representative.....	Pat Guthrie

Fourth Year

President.....	Bill Palk
Vice-President.....	Mary Otto
Secretary-Treasurer.....	Beth McGillivray
Arts Council Representative.....	Ronald Birchard
Social Representative.....	Ken Dickson
Dramatic Representative.....	Stanley Brock
Debating Representative.....	Bill Benidickson
Men's Club Representative.....	Youill Loughhead
Men's Athletic Representative.....	Harry McIntyre
Women's Athletic Representative.....	Lillian Bulman
Manitoban Representative.....	Marshall McLuhan
Cheer Leader.....	Austin Gamsby
Poster Maker.....	Harry McIntyre

Third Year

President.....	Sheldon Arnett
Vice-President.....	Marjorie Gordon
Secretary-Treasurer.....	Betsy Tarr
Arts Council Representative.....	Blair Ferguson
Social Representative.....	Bruce Bracken
Dramatic Representative.....	Marjorie Gordon
Debating Representative.....	Jean McKay
Men's Club Representative.....	Ross Menzies
Men's Athletics Representative.....	Sheldon Arnett
Women's Athletics Representative.....	Bea York
Manitoban Representative.....	Mary E. Thomson
Poster Maker.....	Ruth Wells
Cheer Leader.....	Fraser Henderson

Second Year

President.....	Dick Breen
Vice-President.....	Margaret Beattie
Secretary-Treasurer.....	Forbes Rankin
Arts Council Representative.....	Claude Isbister
Men's Club Representative.....	Robert Hamilton
Men's Athletics Representative.....	Forbes Rankin
Women's Athletics Representative.....	Evelyn Hay
Dramatic Representative.....	Bea Young
Debating Representative.....	Claude Isbister
Manitoban Representative.....	Helen Murchie
Cheer Leader.....	Norman Bergman

University Arts Women's Athletic Executive, 1931-32

President.....	Kay Young
Hockey Representative.....	Peggy McDonald
Basketball Representative.....	Bea York
Curling Representative.....	Lillian Bulman
Tennis Representative.....	Betty Todd
Track Representative.....	Gertrude Fuller
Fifth Year Representative.....	Margaret Montgomery
Fourth Year Representative.....	Lillian Bulman
Third Year Representative.....	Bea York
Second Year Representative.....	Evelyn Hay
First Year Representative.....	To be elected

Executive of Science Students Association, 1931-32

Honorary President.....	Professor R. A. Wardle
Senior Stick.....	Byron Fraser
Lady Stick.....	Beatrice Newton
Secretary.....	To be elected
Treasurer.....	Jack McIntock
Senior U.S.M.U. Representative.....	Art Dawson
Junior U.M.S.U. Representative.....	Harry Lane
Senior U.M.S.U. Social Representative.....	Gerald Proudfoot
Junior U.M.S.U. Social Representative.....	Bob Campbell
Social Convenor.....	Stewart Johnston
Senior Year Book Representative.....	Gordon Josie
Junior Year Book Representative.....	George Shepherd
<i>Manitoban</i> Representative.....	Sylvan Leipsic
Debating Chairman.....	Lorraine Gerrie
Dramatics Chairman.....	Tom Tweed
President of Men's Club.....	William McCracken
Men's Athletics.....	William Kepman
Women's Athletics.....	Daisy Boyd
Fourth Year Representative on Council.....	Donald Hatch
Third Year Representative on Council.....	Jack Liddle
Second Year Representative on Council.....	Campbell MacArthur

Student Scientific Society, 1931-32

Honorary President.....	Professor R. A. Wardle
President.....	Merlin Newton
Vice-President.....	Jessie Wylie
Secretary.....	Ronald Steward-Hay
Social.....	Hubert Fanshaw, Ruth White

University of Manitoba Pharmacy Students' Society Executive, 1931-32

President.....	Alvin Cumming
Vice-President.....	Lyle McMorran
Secretary Treasurer.....	R. E. Wise
U.M.S.U. Representative.....	Lyle McMorran
Athletics Representative.....	Ed. Coleman
Other Council Members to be elected.	

Political Economy Club Executive, 1931-32

Honorary President.....	Professor A. B. Clark
President.....	M. W. Thierry
Vice-President.....	Arnold Bailey
Secretary-Treasurer.....	Maurice Wolfman
Fifth Year Representative.....	Arthur Bremer
Fourth Year Representative.....	Joe Belapolsky
Third Year Representative.....	Donald Emery



In addition to the Calendar herein, the following Calendars are issued by the University of Manitoba and may be obtained on request from the Registrar:

1. Matriculation
2. Engineering and Architecture
3. Medicine
4. Law
5. Agriculture and Home Economics